

**ENCLOSURE 1**

**OYSTER CREEK**

**Calculation No. C-1302-826-E310-018, Revision 0, "Oyster Creek Offsite  
Atmospheric Dispersion (X/Q) for Alternative Source Terms (AST)"**

**ENCLOSURE 1**

**OYSTER CREEK**

**Calculation No. C-1302-826-E310-018, Revision 2, "Oyster Creek Offsite  
Atmospheric Dispersion (X/Q) for Alternative Source Terms (AST)"**

**ATTACHMENT 1**

**Design Analysis Cover Sheet**

<b>Design Analysis (Major Revision)</b>		<b>Last Page No. : 10</b>	
<b>Analysis No.:</b> C-1302-826-E310-018		<b>Revision:</b> 20 <i>for 3/15/07</i>	
<b>Title:</b> Oyster Creek Offsite Atmospheric Dispersion (X/Q) for Alternative Source Terms (AST)			
<b>EC/ECR No.:</b> 05-00169 <i>for 3/15/07</i>		<b>Revision:</b>	
<b>Station(s):</b>	Oyster Creek	<b>Component(s):</b>	
<b>Unit No.:</b>	1	N/A	
<b>Discipline:</b>	M		
<b>Descrip. Code/Keyword:</b>			
<b>Safety/QA Class:</b>	S		
<b>System Code:</b>	Varies		
<b>Structure:</b>	N/A		
<b>CONTROLLED DOCUMENT REFERENCES</b>			
<b>Document No.:</b>	<b>From/To</b>	<b>Document No.:</b>	<b>From/To</b>
PSAT 05201H.07, Rev. 0	From		
<b>Is this Design Analysis Safeguards Information?</b> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> If yes, see SY-AA-101-108			
<b>Does this Design Analysis contain Unverified Assumptions?</b> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> If yes, ATVAR#: _____			
<b>This Design Analysis SUPERCEDES:</b>			
<b>Description of Revision (list affected pages for partials):</b>			
Original Issue			
<b>Preparer:</b>	Traci Thomas	<i>Traci Thomas</i>	03-15-07
	<small>Print Name</small>	<small>Sign Name</small>	<small>Date</small>
<b>Method of Review:</b>	Detailed Review <input checked="" type="checkbox"/>	Alternate Calculations (attached) <input type="checkbox"/>	Testing <input type="checkbox"/>
<b>Reviewer:</b>	Jack Robinson	<i>Jack Robinson</i>	03-15-07
	<small>Print Name</small>	<small>Sign Name</small>	<small>Date</small>
<b>Review Notes:</b>	Independent review <input checked="" type="checkbox"/>	Peer review <input type="checkbox"/>	
<small>(For External Analyses Only)</small>			
<b>External Approver:</b>	<i>Irving Tsang</i>	<i>Irving Tsang</i>	03/15/07
	<small>Print Name</small>	<small>Sign Name</small>	<small>Date</small>
<b>Exelon Reviewer:</b>	<i>T.J. Mseis</i>	<i>Exelon</i>	3/15/07
	<small>Print Name</small>	<small>Sign Name</small>	<small>Date</small>
<b>Is a Supplemental Review Required?</b> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> If yes, complete Attachment 3			
<b>Exelon Approver:</b>	F.G. Lentine	<i>F.G. Lentine</i>	3/15/07
	<small>Print Name</small>	<small>Sign Name</small>	<small>Date</small>

**ATTACHMENT 1  
General Review Questions  
Page 1 of 1**

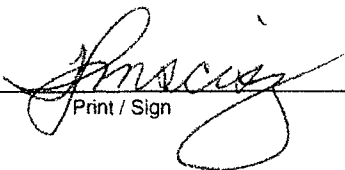
**DESIGN ANALYSIS NO. C-1302-826-E310-018      REV: 0**

		Yes	No	N/A
1.	Does the Design Analysis conform to design requirements?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
2.	Does the Design Analysis conform to applicable codes, standards, and regulatory requirements?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
3.	Have applicable design and safety limits been identified?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
4.	Is the analysis method appropriate?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
5.	Are the methods used and recommendations given conservative relative to the design and safety limits?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
6.	Are assumptions/Engineering Judgments explained and appropriate?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
7.	Have appropriately verified Computer Program and versions been identified, when applicable?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
8.	Does the Computer Program conform with the NRC SER or similar document when applicable?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
9.	Has the input been correctly incorporated into the Design Analysis?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
10.	Has the input been reviewed by all cognizant design authorities?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
11.	Are the analysis outputs and conclusions reasonable compared to the inputs and assumptions?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
12.	Are the recommendations/results/conclusions reasonable based on previous experience?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
13.	Has a verification of the Design Analysis been performed by alternate methods?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
14.	Has all input data been used correctly and is it traceable?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
15.	Has the effect on plant drawings, procedures, databases, and/or plant simulator been addressed?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
16.	Has the effect on other systems been addressed?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
17.	Have any changes in other controlled documents (e.g. UFSAR, Technical Specifications, COLR, etc.) been identified and tracked?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
18.	When applicable, are the analysis results consistent with the proposed license amendment?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
19.	Have other documents that have used the calculation as input been reviewed and revised as appropriate?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
20.	Have all affected design analyses been documented on the Affected Documents List (ADL) for the associated Configuration Change?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
21.	Do the sources of inputs and analysis methodology used meet current technical requirements and regulatory commitments? (If the input sources or analysis methodology are based on an out-of-date methodology or code, additional reconciliation may be required if the site has since committed to a more recent code)	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
22.	Have supporting technical documents and references been reviewed when necessary?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

**ATTACHMENT 2**  
**Owners Acceptance Review Checklist for External Design Analysis**  
**Page 1 of 1**

**DESIGN ANALYSIS NO. C-1302-826-E310-018 REV: 0**

		Yes	No	N/A
1.	Do assumptions have sufficient rationale?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
2.	Are assumptions compatible with the way the plant is operated and with the licensing basis? (For AST)	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
3.	Do the design inputs have sufficient rationale?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
4.	Are design inputs correct and reasonable? (For AST)	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
5.	Are design inputs compatible with the way the plant is operated and with the licensing basis? (For AST)	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
6.	Are Engineering Judgments clearly documented and justified? (For AST)	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
7.	Are Engineering Judgments compatible with the way the plant is operated and with the licensing basis? (For AST)	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
8.	Do the results and conclusions satisfy the purpose and objective of the Design Analysis?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
9.	Are the results and conclusions compatible with the way the plant is operated and with the licensing basis? (For AST)	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
10.	Does the Design Analysis include the applicable design basis documentation?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
11.	Have any limitations on the use of the results been identified and transmitted to the appropriate organizations?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
12.	Are there any unverified assumptions?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
13.	Do all unverified assumptions have a tracking and closure mechanism in place?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
14.	Have all affected design analyses been documented on the Affected Documents List (ADL) for the associated Configuration Change?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
15.	Do the sources of inputs and analysis methodology used meet current technical requirements and regulatory commitments? (If the input sources or analysis methodology are based on an out-of-date methodology or code, additional reconciliation may be required if the site has since committed to a more recent code) (For AST)	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
16.	Have vendor supporting technical documents and references (including GE DRFs) been reviewed when necessary?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

**EXELON REVIEWER: T.J. Mscisz /**  **Print / Sign**

**DATE: 03/15/07**

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### OWNER'S ACCEPTANCE REVIEW CHECKLIST FOR EXTERNAL DESIGN ANALYSIS

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## ATTACHMENTS

- A. 33 ft and 380 ft Wind Roses
- B. 33 ft and 380 ft Joint Frequency Distributions
- C. PAVAN Input Parameter Summary
- D. PAVAN Input and Output Files
- E. PAVAN Computer Disclosure Sheet
- F. Memo from Tom Mscisz (Exelon) to Harold Rothstein (Washington Group International); March 2, 2007

## 1.0 PURPOSE/OBJECTIVE

This calculation, C-1302-826-E310-018, presents the atmospheric relative concentration (X/Q) values for Alternative Source Term (AST) accident evaluations for the Oyster Creek Generating Station. The purpose of this calculation is to determine the Exclusion Area Boundary (EAB), and the outer boundary of the Low Population Zone (LPZ) relative concentration values (X/Q, in  $\text{sec}/\text{m}^3$ ) resulting from certain postulated accidental radiological releases. The values resulting from this calculation will serve as input to the calculation of the radiological doses for use of the Alternative Source Terms (AST) per Regulatory Guide 1.183 (Reference 1).

The X/Q values resulting at the EAB and LPZ are calculated using the NRC-sponsored computer code PAVAN (Reference 2), consistent with the procedures in Regulatory Guide 1.145 (Reference 3).

## 2.0 PAVAN MODELING ANALYSIS OF EAB and LPZ X/Q

PAVAN is a commercial software package designated by Washington Group International (WGI) as MC-131, an "active" program applicable to nuclear safety related analyses as well as non-safety related studies and evaluations. The PAVAN code (Verification Revision 1) was executed for the 0-2 hour, 0-8 hour, 8-24, 1-4 day, and 4-30 day 0.5-percentile, and annual average direction-specific X/Q values, and the overall site 95-percentile maximum X/Q for each of the 0-2 hour, 0-8 hour, 8-24 hour, 1-4 day, and 4-30 day time-averaging periods. This verification was performed with WGI (formerly Raytheon Engineers & Constructors, Inc.) corporate standards, and is consistent with the procedure Computer Software Control, NEP-09. Revision 1 of MC-131 was verified for ground-level (i.e., non-elevated) releases, as well as elevated releases, with zero (0) vertical exit velocity assumed.

### 2.1 Methodology and Acceptance Criteria

The computer code PAVAN uses a straight line Gaussian dispersion model to estimate relative ground-level air concentrations (X/Q) for potential accidental releases of radioactive material from nuclear facilities. Such assessment is required by 10 CFR 100 and 10 CFR 50. The program implements the NRC guidance provided in Regulatory Guide 1.145. The technical basis for the program is presented by Snell and Jubach (Reference 4). Utilizing joint frequency of occurrence distributions of wind direction, wind speed and Pasquill atmospheric stability class, PAVAN calculates X/Q values as a function of direction for various time-averaging periods at the EAB and the outer boundary of the LPZ. Calculations are made from assumed ground-level (i.e., non-elevated) releases (such as vents and building penetrations), which are less than 2.5 times the height of adjacent solid structures, and from elevated releases (i.e., stacks). Three (3) procedures are utilized for calculating X/Q: a direction-dependent approach, a direction-independent approach, and an overall site X/Q approach.

The PAVAN model contains certain model options for executing the program. Table 2-1 below summarizes the options invoked for the EAB and LPZ X/Q Oyster Creek calculations.

**TABLE 2-1**

Option No.	Description	Option Invoked?
1	Calculate $\sigma_y$ and $\sigma_x$ based on desert diffusion.	No
2	X/Q values include evaluation for no building wake.	No
3	ENVLOP calculations printed which describe upper envelope curve.	No
4	Print points used in upper envelope curve and calculation.	Yes
5	Null	---
6	Joint frequency distribution in % frequency format.	No
7	Print X/Q calculation details	Yes
8	Distribute calm winds observations into first wind speed category.	Yes
9	Use site-specific terrain adjustment factors for the annual average calculations.	Yes*
10	Assume a default terrain adjustment factor for the average annual calculations. Option 10 is applied, which together with application of Option 9 means that site specific terrain factors will be used.	Yes

\* A uniform value of 1.0 is used.

## 2.2 Meteorological Data

The Oyster Creek meteorological database for the five-year period, 1995-1999, as supplied by Exelon (Reference 5), was applied in the PAVAN modeling analysis. Wind measurements were taken at 33 ft, 150 ft and 380 ft, and the vertical temperature difference was measured between 150 ft and 33 ft, and 380 ft and 33 ft. For each scenario, the most representative tower levels were utilized as shown in Table 2-2 below:

TABLE 2-2		
Release	Wind Levels	Delta T Stability Class Levels
Ground	33 ft	150-33 ft
Stack	380 ft	380-33 ft

The format of PAVAN meteorological input consists of a joint wind direction (based on sixteen 22.5 degree sectors), wind speed (14 intervals), and stability class (7 classes) occurrence frequency distribution. Each such meteorological joint frequency distribution for input to PAVAN was prepared by using the WGI pre-qualified program ARCONtoPAVANMETrev1 (Program Number NU-840) to transform the data to a joint wind-stability occurrence frequency distribution. The fourteen wind speed categories<sup>1</sup> were defined according to Reference 5 and NUREG/CR-2858 (Reference 2), with the first category identified as "calm" (i.e. the wind threshold of 0.93 mph (Reference 6)). The wind speed categories have, therefore, been defined as follows in Table 2-3:

<sup>1</sup>A total of 13 wind speed categories were identified per Reference 5; however, this did not account for the last wind speed category of > 10.0 m/s (22.37 mph). Therefore, a "14th" category was added as shown in Table 2-3.



**TABLE 2-3**  
**DEFINED WIND SPEED CATEGORY**  
**RANGES FOR PAVAN MODELING**

Category No.	PAVAN-Assumed Speed Interval (mph)
1 (Calm)	0 to <0.93
2	>=0.93 to <1.12
3	>=1.12 to <1.68
4	>=1.68 to <2.24
5	>=2.24 to <2.80
6	>=2.80 to <3.36
7	>=3.36 to <4.47
8	>=4.47 to <6.71
9	>=6.71 to <8.95
10	>=8.95 to <11.18
11	>=11.18 to <13.42
12	>=13.42 to <17.90
13	>=17.90 to <22.37
14	>=22.37

Attachment A presents the five-year wind rose diagrams, based respectively on the 33 ft and 380 ft data in the meteorological database.

Attachment B contains the joint wind direction, wind speed, and stability class distribution tables as used for the PAVAN modeling analysis, based on the five-year meteorological database. These data are provided both in the format of number of observations and percent occurrence frequency.

## 2.3 Design Basis Analysis

### 2.3.1 Source/Receptor Scenarios and Configurations

The EAB and LPZ at Oyster Creek are located at 414 m and 3218 m, respectively (Reference 5). The X/Q values were calculated for the Off-Gas Stack with a height of 112 m (Reference 5) and a ground-level release for which PAVAN requires an assumption of a 10 m release height (Reference 2). Since the Off-Gas Stack qualifies as an elevated release per RG 1.145, PAVAN requires terrain data to be input. The terrain surrounding Oyster Creek is flat, therefore, terrain heights of 0 m were input at the EAB (414 m) and LPZ (3218 m) distances. The Reactor Building height of 44.8 m and the calculated Reactor Building vertical cross-sectional area of 1913 m<sup>2</sup> were used for each of the scenarios (Reference 7).

A summary of the PAVAN input is contained in Attachment C

### 2.3.2 Calculations

The Oyster Creek X/Q summary for the EAB and LPZ calculated by the PAVAN modeling analysis is presented in Table 2-4 below.

<b>TABLE 2-4 X/Q RESULTS</b>				
	<b>EAB (414m)</b>		<b>LPZ (3218 m)</b>	
	<b>Ground</b>	<b>Stack</b>	<b>Ground</b>	<b>Stack</b>
<b>Max Fumigation 0 - 2 hours<sup>1</sup></b>		1.07E-04		
<b>Max Fumigation 0 - 4 hours<sup>1</sup></b>				1.68E-05
<b>0-2 hours</b>	1.41E-03	2.25E-06	1.35E-04	1.83E-06
<b>0-8 hours</b>	7.44E-04	9.33E-07	6.23E-05	8.88E-07
<b>8-24 hours</b>	5.41E-04	6.01E-07	4.23E-05	6.19E-07
<b>1-4 days</b>	2.71E-04	2.32E-07	1.82E-05	2.83E-07
<b>4-30 days</b>	1.01E-04	5.88E-08	5.43E-06	9.16E-08

<sup>1</sup> For coastal sites, the max fumigation X/Q value at the EAB and LPZ should be used for the stack release for the period from 0-2 hours and 0-4 hours, respectively (per RG 1.145, Section 2.1.2 (b) and 2.2.2 (b)).

### 3.0 SUMMARY AND CONCLUSIONS

Oyster Creek PAVAN X/Q modeling results are presented in Table 2-4. All computer model input and output files associated with these results are provided in Attachment D, and the corresponding WGI Computer Disclosure Sheet is contained in Attachment E.

#### 4.0 REFERENCES

- 1) *Regulatory Guide 1.183, "Alternative Radiological Source Terms For Evaluating Design Basis Accidents At Nuclear Power Reactors"*; U.S. Nuclear Regulatory Commission; July 2000
- 2) NUREG/CR-2858, *Atmospheric Dispersion Code System for Evaluating Accidental Radioactivity Releases from Nuclear Power Stations*; PAVAN, Version 2; Oak Ridge National Laboratory; U.S. Nuclear Regulatory Commission; December 1997.
- 3) *Regulatory Guide 1.145; Atmospheric Dispersion Models for Potential Accident Consequence Assessments at Nuclear Power Plants (Revision 1)*; U.S. Nuclear Regulatory Commission; November 1982.
- 4) *Technical Basis for Regulatory Guide 1.145, Atmospheric Dispersion Models for Potential Accident Consequence Assessments at Nuclear Power Plants*; NUREG/CR-2260; W. G. Snell and R. W. Jubach, U.S. Nuclear Regulatory Commission, Washington, D.C; 1981.
- 5) *Oyster Creek Meteorological Data for Use in Development of New Offsite (EAB and LPZ) Atmospheric Dispersion Coefficients (X/Qs) using PAVAN*, Memo from Tom Mscisz (Exelon) to Harold Rothstein (Washington Group International), March 2, 2007 (Attachment F).
- 6) Phone conversation between Traci Thomas (Washington Group International) with Tom Mscisz (Exelon), 3/5/07.
- 7) Calculation PSAT 05201H.07, *X/Qs for N<sub>2</sub> System Reactor Building Bypass Releases for OCNGS Control Room Habitability*, Revision 0, 3/28/1997.

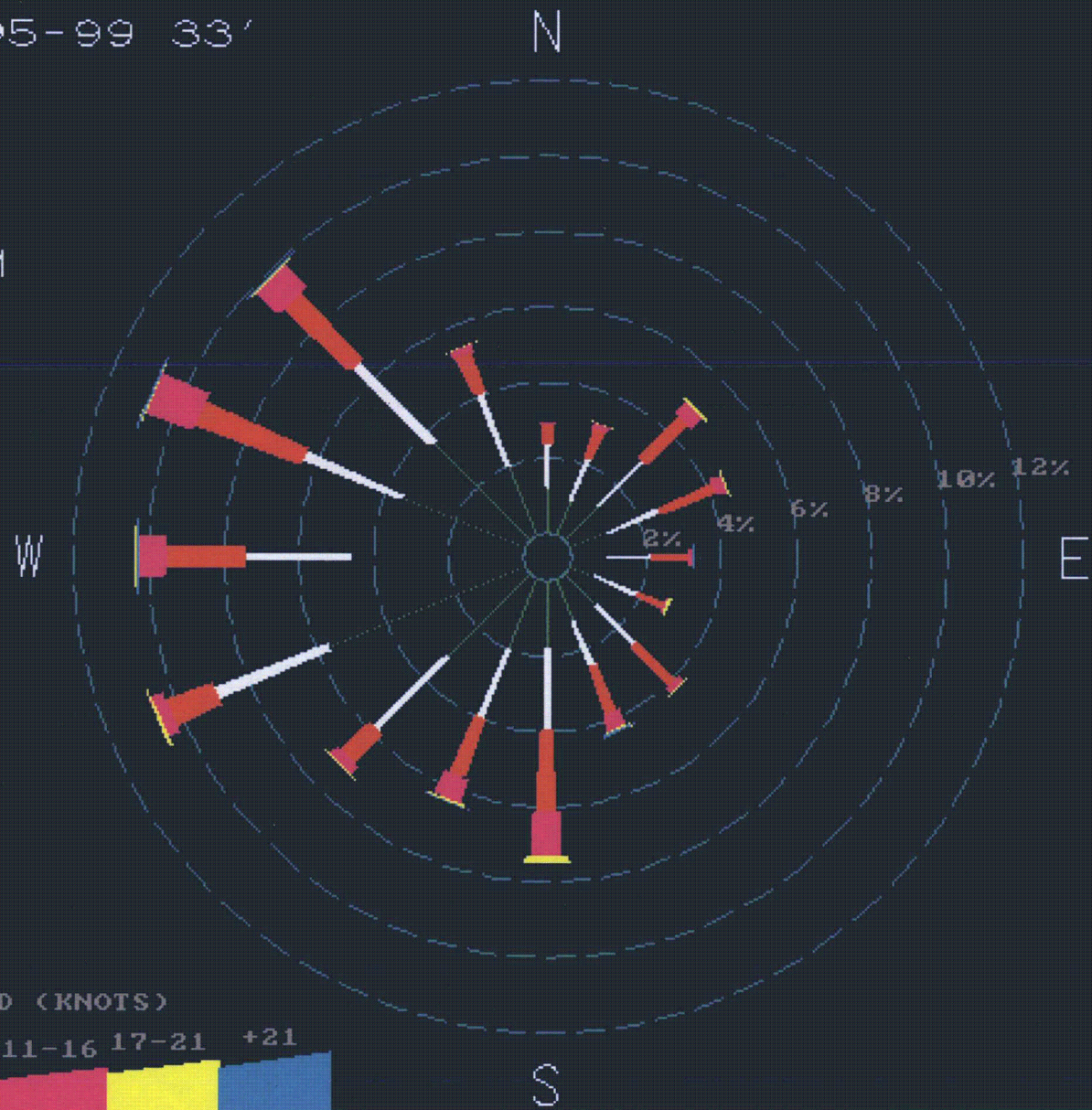
Oyster Creek 95-99 33'

January 1

December 31

Midnight-11 PM

NOTE: Frequencies indicate direction from which the wind is blowing.



CALM WINDS 1.61%

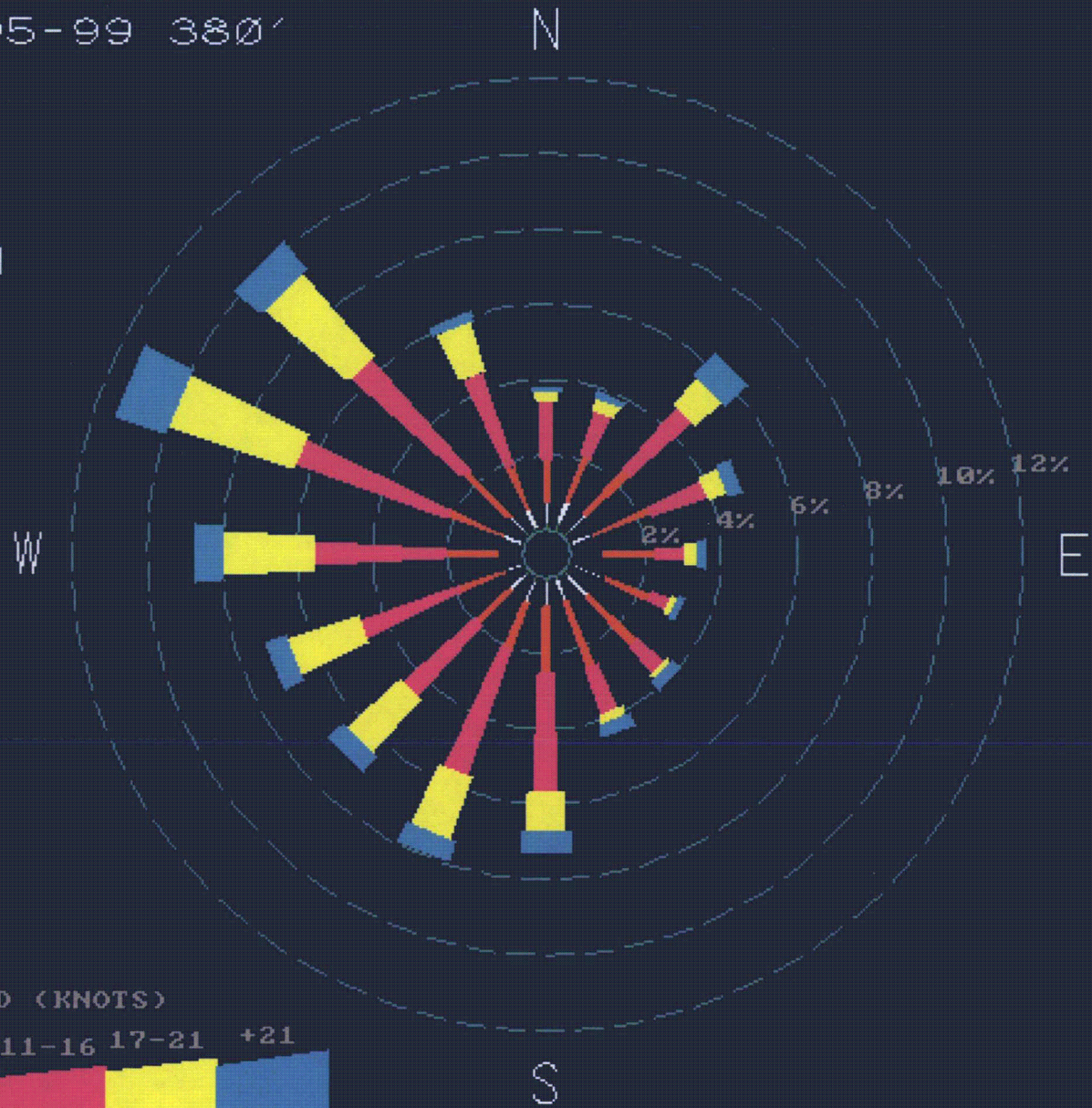
Oyster Creek 95-99 380'

January 1

December 31

Midnight-11 PM

NOTE: Frequencies indicate direction from which the wind is blowing.



CALM WINDS 0.17%

WIND SPEED (KNOTS)



Oyster Creek
Joint Frequency Distribution
1995-1999
33 ft wind
150-33 ft Delta T

Table with columns: Wind Speed Category, Wind Direction Category (N, NNE, NE, ENE, E, ESE, SE, SSE, S, SSW, SW, WSW, W, WNW, NW, NNW), Total, Calms, Total. Rows are grouped by Wind Speed Category (1(A) to 7(G)).

Notes:
(1) Wind Speed Categories defined as follows:
Table with 2 columns: Category, Wind Speed (mph)
1 (Calm) <0.93
2 >=0.93 to <1.12
3 >=1.12 to <1.68
4 >=1.68 to <2.24
5 >=2.24 to <2.80
6 >=2.80 to <3.36
7 >=3.36 to <4.47
8 >=4.47 to <6.71
9 >=6.71 to <8.95
10 >=8.95 to <11.18
11 >=11.18 to <13.42
12 >=13.42 to <17.90
13 >=17.90 to <22.37
14 >=22.37

Oyster Creek  
 Joint Frequency Distribution  
 1995-1999  
 33 ft wind  
 150-33 ft Delta T

Wind Speed Category <sup>(1)</sup>	Wind Direction Category																Total	
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16		
1 (A)	0.002368826	0	0	0	0	0	0	0	0	0	0	0.002369	0	0	0	0.002369	0.002369	15.75743
2 (B)	0.002368826	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.002369	0.5244581
3 (C)	0.002368826	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.002369	0.2717044
4 (D)	0.004737652	0.004737652	0.004737652	0.004737652	0.004737652	0.004737652	0.004737652	0.004737652	0.004737652	0.004737652	0.004737652	0.004737652	0.004737652	0.004737652	0.004737652	0.004737652	0.004738	0.061589
5 (E)	0.004737652	0.004737652	0.004737652	0.004737652	0.004737652	0.004737652	0.004737652	0.004737652	0.004737652	0.004737652	0.004737652	0.004737652	0.004737652	0.004737652	0.004737652	0.004737652	0.004738	0.137392
6 (F)	0.004737652	0.004737652	0.004737652	0.004737652	0.004737652	0.004737652	0.004737652	0.004737652	0.004737652	0.004737652	0.004737652	0.004737652	0.004737652	0.004737652	0.004737652	0.004737652	0.004738	0.175293
7 (G)	0.004737652	0.004737652	0.004737652	0.004737652	0.004737652	0.004737652	0.004737652	0.004737652	0.004737652	0.004737652	0.004737652	0.004737652	0.004737652	0.004737652	0.004737652	0.004737652	0.004738	0.547199
All Stability Classes	0.049745351	0.049745351	0.049745351	0.049745351	0.049745351	0.049745351	0.049745351	0.049745351	0.049745351	0.049745351	0.049745351	0.049745351	0.049745351	0.049745351	0.049745351	0.049745351	0.049746	13.86

Notes:  
 (1) Wind Speed Categories defined as follows:

Category	Wind Speed (mph)
1 (Calm)	<0.93
2	>=0.93 to <1.12
3	>=1.12 to <1.68
4	>=1.68 to <2.24
5	>=2.24 to <2.80
6	>=2.80 to <3.36
7	>=3.36 to <4.47
8	>=4.47 to <6.71
9	>=6.71 to <8.95
10	>=8.95 to <11.18
11	>=11.18 to <13.42
12	>=13.42 to <17.90
13	>=17.90 to <22.37
14	>=22.37





11	>=11.18 to <13.42
12	>=13.42 to <17.90
13	>=17.90 to <22.37
14	>=22.37

**Oyster Creek**  
**Joint Frequency Distribution**  
 1995-1999  
 380 ft wind  
 380-33 ft Delta T

Wind Speed Category <sup>(1)</sup>	Wind Direction Category																Total		
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16			
1 (A)	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.002286	0.002286	
	3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
	4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
	5	0	0	0	0	0	0	0	0	0	0.002286	0	0	0	0	0	0	0.002286	
	6	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
	7	0	0	0	0.002286	0	0.002286	0	0	0	0	0	0	0	0	0	0	0.002286	0.006858
	8	0.002286	0	0.006858	0	0	0.004572	0.002286	0.004572	0.002286	0.002286	0.002286	0.002286	0	0.002286	0	0	0.002286	0.032004
	9	0.002286	0.002286	0	0	0.004572	0.002286	0.002286	0.002286	0	0.002286	0.009144	0.009144	0	0.006858	0.002286	0.002286	0.002286	0.005257
	10	0.002286	0.002286	0.004572	0.11143	0.016002	0.016002	0.009144	0.004572	0.002286	0.004572	0.018288	0.004572	0.006858	0.004572	0.002286	0.002286	0.002286	0.012013
	11	0	0.004572	0.01143	0.018288	0.018288	0.006858	0.025146	0.018288	0.01143	0.009144	0.009144	0.01143	0.016002	0.006858	0.009144	0	0.017602	0.017602
	12	0.004571951	0.006858	0.050291	0.043434	0.004572	0.006858	0.02286	0.029718	0.043434	0.027432	0.016002	0.020574	0.048005	0.082295	0.068579	0.0091439	0.0484627	0.0484627
	13	0	0.002286	0.027432	0.018288	0	0	0	0.009144	0.027432	0.027432	0.004572	0.016002	0.048005	0.112013	0.100583	0.0137159	0.0406904	0.0406904
	14	0	0	0.006858	0.009144	0.002286	0	0	0	0.009144	0.009144	0.002286	0.016002	0.032004	0.109727	0.128015	0.004572	0.032918	0.032918
	2 (B)	2	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	0	0	0	0	0	
4		0	0	0	0	0	0	0	0	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	
6		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
7		0	0	0	0	0	0	0	0.002286	0.002286	0.002286	0	0	0	0	0	0	0	0.006858
8		0.002286	0.004572	0	0.004572	0.002286	0.002286	0.002286	0.006858	0.002286	0.002286	0	0.002286	0	0.002286	0	0	0.002286	0.030429
9		0.011429878	0	0.006858	0.016002	0.009144	0.018288	0.009144	0.006858	0	0.004572	0.004572	0.013716	0.01143	0.002286	0.002286	0.002286	0.002286	0.0118871
10		0.006857927	0.002286	0.018288	0.054863	0.050291	0.077723	0.064007	0.013716	0.009144	0.020574	0.006858	0.02286	0.016002	0.018288	0.02286	0.0114299	0.0400046	0.0400046
11		0.016001829	0.006858	0.03429	0.089153	0.052577	0.03429	0.052577	0.066299	0.038862	0.01143	0.01143	0.032004	0.038862	0.04572	0.059435	0.0205738	0.0610355	0.0610355
12		0.011429878	0	0.098297	0.132587	0.018288	0.013716	0.038862	0.093725	0.107441	0.064007	0.029718	0.075437	0.105155	0.116585	0.166876	0.0502915	1.122414	1.122414
13		0.004571951	0.006858	0.025146	0.03429	0.006858	0	0.002286	0.006858	0.068667	0.057149	0.016002	0.038862	0.054863	0.162304	0.14173	0.0385756	0.681221	0.681221
14		0	0	0.013716	0.009144	0.004572	0.002286	0	0.002286	0.020574	0.03429	0.013716	0.020574	0.077723	0.169162	0.134873	0.0160018	0.518916	0.518916
3 (C)		2	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	0	0	0	0	0	
	4	0	0	0	0	0	0	0	0	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	
	6	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	7	0	0	0	0.002286	0.004572	0.002286	0.004572	0	0.004572	0.002286	0	0	0.006858	0	0.009144	0	0.036576	0.036576
	8	0.009143902	0.002286	0.004572	0.009144	0.01143	0.009144	0.009144	0	0.004572	0.009144	0.004572	0.009144	0.01143	0.009144	0.009144	0.0068579	0.0118871	0.0118871
	9	0.022859755	0.018288	0.01143	0.032004	0.075437	0.075437	0.057149	0.01143	0.009144	0.020574	0.03429	0.025146	0.032004	0.041148	0.025146	0.0182878	0.509773	0.509773
	10	0.011429878	0.004572	0.041148	0.093725	0.116585	0.102869	0.139445	0.050291	0.025146	0.02286	0.032004	0.057149	0.066299	0.068579	0.089153	0.0502915	0.091754	0.091754
	11	0.027431706	0.006858	0.070865	0.160018	0.080009	0.048005	0.114299	0.112013	0.070865	0.027432	0.01143	0.080009	0.105155	0.091439	0.118871	0.0480055	0.172705	0.172705
	12	0.02057378	0.01143	0.082295	0.118871	0.027432	0.02286	0.073151	0.125729	0.125729	0.059435	0.134873	0.178306	0.226312	0.230884	0.1028689	0.1735055	0.1735055	0.1735055
	13	0.002285976	0.002286	0.064007	0.032004	0.002286	0	0.002286	0.01143	0.064007	0.080009	0.043434	0.048005	0.093725	0.244599	0.205738	0.0571494	0.0953252	0.0953252
	14	0.002285976	0	0.02286	0.004572	0.009144	0.002286	0	0	0.018288	0.064007	0.02286	0.036576	0.068579	0.310893	0.219454	0.0320037	0.813807	0.813807
	4 (D)	2	0	0.002286	0.002286	0	0	0	0	0	0	0	0	0	0	0	0	0	0.004572
3		0.002285976	0.004572	0.002286	0.002286	0.002286	0	0.009144	0.004572	0.004572	0	0.004572	0.002286	0.004572	0	0.004572	0.004572	0.025272	
4		0.011429878	0.006858	0.01143	0.009144	0.009144	0.01143	0.016002	0.006858	0	0.013716	0.002286	0.004572	0.009144	0	0.006858	0	0.0118871	
5		0.016001829	0.020574	0.01143	0.01143	0.016002	0.01143	0.01143	0.01143	0.009144	0	0.009144	0.006858	0.004572	0.002286	0.01143	0.004572	0.0157323	
6		0.013715853	0.02286	0.020574	0.018288	0.004572	0.025146	0.027432	0.013716	0.016002	0.018288	0.013716	0.013716	0.009144	0.018288	0.018288	0.0091439	0.0252743	0.0252743
7		0.038861584	0.057149	0.048005	0.052577	0.048005	0.043434	0.036576	0.041148	0.025146	0.025146	0.041148	0.018288	0.032004	0.027432	0.052577	0.0411476	0.0628643	0.0628643
8		0.16916219	0.178306	0.180592	0.144016	0.214882	0.265173	0.237741	0.123443	0.134873	0.123443	0.134873	0.116585	0.100583	0.137159	0.146302	0.139445	0.128015	0.2597419
9		0.226311578	0.219454	0.276603	0.306321	0.342896	0.452623	0.459481	0.38633	0.253743	0.19888	0.203452	0.189736	0.214882	0.212596	0.285747	0.2423134	0.4471366	0.4471366
10		0.262887187	0.288033	0.395474	0.40919	0.354326	0.342896	0.448051	0.498343	0.475463	0.269745	0.201166	0.23317	0.262887	0.317751	0.393188	0.2803189	0.542908	0.542908
11		0.251457309	0.249171	0.52806	0.416048	0.306321	0.219454	0.283461	0.432049	0.577778	0.368042	0.212596	0.294891	0.372614	0.3749	0.436621	0.3291805	0.632544	0.632544
12		0.354326209	0.386616	0.781804	0.630929	0.336038	0.244599	0.276803	0.313179	0.77496	1.012687	0.338324	0.523488	0.672077	0.848097	0.884673	0.658361	0.938747	0.938747
13		0.14858841	0.230884	0.621785	0.496057	0.262887	0.100583	0.048005	0.114299	0.400006	0.694937	0.242313	0.272031	0.523488	0.841239	0.770374	0.4114756	0.789922	0.789922
14		0.043433535	0.05155	0.756658	0.493771	0.21031	0.137159	0.16459	0.128015	0.358894	0.195999	0.169162	0.194308	0.370328	1.161276	0.868671	0.2880329	6.066265	6.066265
5 (E)		2	0	0.002286	0.002286	0	0.002286	0	0	0	0	0	0	0	0	0	0	0.002286	0.009144
	3	0.004571951	0.006858	0.004572	0.002286	0	0.002286	0.002286	0.002286	0.002286	0.006858	0.002286	0	0.002286	0.002286	0	0.038862	0.038862	
	4	0.006857927	0.006858	0.009144	0.013716	0.002286	0.004572	0.01143	0.004572	0.006858	0	0.009144	0.004572	0.006858	0.004572	0.0068579	0.002286	0.0102869	0.0102869
	5	0.016001829	0.004572	0	0.002286	0.006858	0.002286	0.006858	0.004572	0.002286	0.004572	0.006858	0.006858	0.006858	0.004572	0	0.0080009	0.0080009	0.0080009
	6	0.004571951	0.006858	0.004572	0.01143	0.013716	0.009144	0.013716	0.006858	0.01143	0.01143	0.002286	0.006858	0.006858	0.004572	0.01143	0.0114299	0.037159	0.037159
	7	0.016001829	0.020574	0.025146	0.020574	0.018288	0.027432	0.02286	0.016002	0.020574	0.02286	0.03429	0.018288	0.018288	0.013716	0.013716	0.0137159	0.0322323	0.0322323
	8	0.04114756	0.057149	0.066299	0.059435	0.082295	0.073151	0.082295	0.057149	0.066121	0.068579	0.061721	0.038862	0.041148	0.073151	0.04572	0.052577	0.0962396	0.0962396
	9	0.091439022	0.109727	0.109727	0.088667	0.068579	0.098297	0.098297	0.048051	0.06									

12	>=13.42 to <17.90
13	>=17.90 to <22.37
14	>=22.37

## **Oyster Creek PAVAN Inputs**

Unless otherwise noted, all PAVAN inputs are per the March 2, 2007 memo "Oyster Creek Meteorological Data for Use in Development of New Offsite (EAB and LPZ) Atmospheric Dispersion Coefficients (X/Qs) using PAVAN" from Tom Mscisz to Harold Rothstein.

### **GROUND RELEASE:**

EAB = 414 m

LPZ = 3218 m

Ground Release

1995-1999 met data

33 ft meteorological data

33' – 150' ΔT

Building Area = 1913 m<sup>2</sup> (per Calculation PSAT05201H.07, Rev. 0)

Building Height = 44.8 m (per Calculation PSAT05201H.07, Rev. 0)

Release Height = 10.0 m (per NUREG/CR-2858, Table 3.1)

14 Wind Speed Categories<sup>1</sup> (mph):

<0.93 (calm wind threshold per phone conversation with Tom Mscisz, 3/5/07)

0.93 - 1.12

1.12 – 1.68

1.68 – 2.24

2.24 – 2.80

2.80 – 3.36

3.36 – 4.47

4.47 – 6.71

6.71 – 8.95

8.95 – 11.18

11.18 – 13.42

13.42 – 17.90

17.90 – 22.37

>22.37

### **STACK RELEASE:**

EAB = 414 m

LPZ = 3218 m

Elevated Release

1995-1999 met data

380 ft meteorological data

33' – 380' ΔT

Building Area = 1913 m<sup>2</sup> (per Calculation PSAT05201H.07, Rev. 0)

Building Height = 44.8 m (per Calculation PSAT05201H.07, Rev. 0)

Release Height = 112 m

14 Wind Speed Categories<sup>1</sup> (mph):

<0.93 (calm wind threshold per phone conversation with Tom Mscisz, 3/5/07)

0.93 - 1.12

1.12 – 1.68

1.68 – 2.24

2.24 – 2.80

2.80 – 3.36

3.36 – 4.47

4.47 – 6.71

6.71 – 8.95

8.95 – 11.18

11.18 – 13.42

13.42 – 17.90

17.90 – 22.37

>22.37

Terrain Heights of 0 m at distances of 414 m and 3218 m for all sectors.

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<sup>1</sup>13 wind speed categories were to be utilized per the above referenced memo, however, this did not account for the last wind speed category of > 10.0 m/s (22.37 mph). Therefore, this "14th" category was added as shown above.

## **Oyster Creek PAVAN Input and Output**

Ground-Level Release .....	2
Off-Gas Stack Release.....	163







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USNRC COMPUTER CODE-PAVAN, VERSION 2.0                      RUN DATE: 03/07/07

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      Oyster Creek
Ground Release
3      Ground                10.1-45.7 meters
4
5      Oyster Creek, Ground Release, 1995-1999 met data                                6      14 42215      0
7      0.500 1913.000      44.800      10.000      10.100
8      1.000 0.000 0.000 0.000 26.000 58.000 74.000 0.000 231.000
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 0.000
9      1.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 1.000 0.000 1.000 0.000 0.000 0.000 0.000
9      0.000 0.000 1.000 2.000 1.000 0.000 1.000 0.000 1.000 0.000 0.000 0.000 0.000 0.000 3.000 0.000 1.000
9      0.000 1.000 2.000 0.000 2.000 3.000 1.000 2.000 2.000 2.000 2.000 2.000 2.000 2.000 6.000 2.000 1.000
9      3.000 4.000 2.000 11.000 12.000 4.000 4.000 4.000 4.000 4.000 4.000 5.000 4.000 8.000 9.000 8.000 5.000
9      11.000 9.000 13.000 42.000 38.000 24.000 29.000 14.000 15.000 11.000 18.000 17.000 20.000 21.000 33.000 15.000
9      29.000 25.000 44.000 63.000 96.000 110.000 92.000 31.000 76.000 42.000 56.000 60.000 58.000 71.000 68.000 58.000
9      26.000 30.000 97.000 188.000 166.000 182.000 198.000 69.000 54.000 32.000 41.000 92.000 111.000 126.000 146.000 85.000
9      27.000 13.000 80.000 159.000 92.000 58.000 179.000 134.000 109.000 57.000 60.000 84.000 133.000 179.000 217.000 71.000
9      6.000 6.000 31.000 59.000 24.000 7.000 53.000 79.000 179.000 51.000 28.000 49.000 85.000 220.000 163.000 52.000
9      3.000 0.000 13.000 13.000 4.000 0.000 3.000 26.000 142.000 69.000 20.000 26.000 72.000 165.000 140.000 25.000
9      0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 19.000 14.000 5.000 3.000 16.000 17.000 10.000 2.000
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 0.000 6.000 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 0.000
9      0.000 1.000 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 1.000 0.000
9      0.000 2.000 1.000 2.000 1.000 0.000 1.000 0.000 0.000 1.000 1.000 0.000 1.000 0.000 0.000 0.000 0.000
9      1.000 0.000 3.000 2.000 2.000 0.000 2.000 0.000 1.000 2.000 1.000 1.000 1.000 1.000 0.000 5.000 1.000
9      5.000 6.000 5.000 3.000 7.000 3.000 3.000 5.000 2.000 1.000 3.000 6.000 2.000 2.000 4.000 2.000
9      9.000 6.000 7.000 11.000 18.000 10.000 9.000 10.000 7.000 7.000 7.000 10.000 16.000 12.000 10.000 3.000
9      21.000 26.000 35.000 42.000 43.000 29.000 42.000 29.000 31.000 28.000 30.000 45.000 29.000 34.000 47.000 42.000
9      16.000 15.000 30.000 42.000 30.000 35.000 43.000 68.000 33.000 21.000 22.000 43.000 55.000 63.000 52.000 36.000
9      9.000 2.000 14.000 18.000 7.000 5.000 19.000 34.000 46.000 26.000 12.000 30.000 43.000 44.000 46.000 33.000
9      1.000 0.000 8.000 6.000 9.000 8.000 6.000 8.000 32.000 18.000 5.000 11.000 21.000 38.000 28.000 16.000
9      0.000 1.000 2.000 0.000 2.000 0.000 2.000 5.000 32.000 23.000 7.000 13.000 13.000 45.000 34.000 6.000
9      0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 2.000 2.000 1.000 0.000 4.000 6.000 3.000 0.000
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 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      0.000 0.000 1.000 0.000 1.000 0.000 0.000 1.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 1.000 0.000
9      0.000 3.000 3.000 0.000 1.000 0.000 1.000 0.000 0.000 0.000 0.000 0.000 1.000 1.000 0.000 0.000
9      1.000 1.000 1.000 2.000 0.000 3.000 0.000 0.000 1.000 2.000 2.000 3.000 0.000 0.000 1.000 0.000
9      2.000 2.000 2.000 2.000 2.000 4.000 3.000 3.000 1.000 1.000 3.000 1.000 2.000 4.000 2.000 2.000
9      4.000 6.000 10.000 6.000 7.000 5.000 9.000 5.000 4.000 8.000 6.000 6.000 10.000 7.000 10.000 8.000
9      23.000 18.000 21.000 14.000 22.000 18.000 14.000 12.000 19.000 9.000 12.000 19.000 28.000 21.000 29.000 22.000
9      8.000 3.000 23.000 22.000 10.000 10.000 38.000 27.000 20.000 9.000 8.000 17.000 19.000 26.000 21.000 21.000
9      5.000 2.000 4.000 11.000 3.000 2.000 12.000 15.000 31.000 17.000 6.000 13.000 16.000 20.000 17.000 14.000
9      1.000 0.000 4.000 3.000 6.000 1.000 1.000 1.000 22.000 10.000 3.000 4.000 9.000 21.000 9.000 6.000
9      0.000 0.000 0.000 0.000 1.000 0.000 1.000 3.000 10.000 9.000 2.000 3.000 15.000 20.000 14.000 3.000
9      0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 1.000 2.000 1.000 1.000 5.000 3.000 0.000
9      0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 1.000 0.000 1.000 0.000 0.000 0.000 1.000 0.000
9      2.000 4.000 1.000 3.000 0.000 2.000 1.000 0.000 1.000 1.000 2.000 2.000 1.000 0.000 5.000 5.000
9      10.000 10.000 10.000 3.000 4.000 2.000 5.000 3.000 7.000 7.000 7.000 5.000 5.000 9.000 5.000 5.000
9      15.000 18.000 21.000 11.000 11.000 10.000 14.000 12.000 12.000 9.000 11.000 11.000 11.000 8.000 11.000 18.000

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USNRC COMPUTER CODE-PAVAN, VERSION 2.0

RUN DATE: 03/07/07

PLANT NAME: Oyster Creek

METEOROLOGICAL INSTRUMENTATION

DATA PERIOD:

WIND SENSORS HEIGHT: Ground

TYPE OF RELEASE: Ground Release

DELTA-T HEIGHTS: 10.1-45.7 meters

SOURCE OF DATA:

COMMENTS: Oyster Creek, Ground Release, 1995-1999 met data

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
0.42 0.41	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.002
0.50 0.50	0.000	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
0.75 0.75	0.002	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.002	0.000	0.002	0.000	0.000	0.000	0.000	0.007
1.00 1.00	0.000	0.000	0.002	0.005	0.002	0.000	0.002	0.000	0.002	0.000	0.000	0.000	0.000	0.007	0.000	0.002	0.024
1.25 1.25	0.000	0.002	0.005	0.000	0.005	0.007	0.002	0.005	0.002	0.005	0.005	0.005	0.005	0.014	0.005	0.002	0.069
1.50 1.50	0.007	0.009	0.005	0.026	0.028	0.009	0.009	0.009	0.009	0.009	0.012	0.009	0.019	0.021	0.019	0.012	0.216
2.00 1.99	0.026	0.021	0.031	0.099	0.090	0.057	0.069	0.033	0.036	0.026	0.043	0.040	0.047	0.050	0.078	0.036	0.782
3.00 2.99	0.069	0.059	0.104	0.149	0.227	0.261	0.218	0.073	0.180	0.099	0.133	0.142	0.137	0.168	0.161	0.137	2.319
4.00 3.99	0.062	0.071	0.230	0.445	0.393	0.431	0.469	0.163	0.128	0.076	0.097	0.218	0.263	0.298	0.346	0.201	3.892
5.00 4.99	0.064	0.031	0.190	0.377	0.218	0.137	0.424	0.317	0.258	0.135	0.142	0.199	0.315	0.424	0.514	0.168	3.913
6.00 5.98	0.014	0.014	0.073	0.140	0.057	0.017	0.126	0.187	0.424	0.121	0.066	0.116	0.201	0.521	0.386	0.123	2.587
8.00 7.98	0.007	0.000	0.031	0.031	0.009	0.000	0.007	0.062	0.336	0.163	0.047	0.062	0.171	0.391	0.332	0.059	1.708
10.00 9.98	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.045	0.033	0.012	0.007	0.038	0.040	0.024	0.005	0.204
24.59 24.53	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.002	0.007	0.000	0.000	0.014	0.007	0.002	0.033
TOTAL	0.25	0.21	0.67	1.27	1.03	0.92	1.33	0.85	1.42	0.67	0.56	0.80	1.20	1.95	1.87	0.75	15.76

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
0.42 0.41	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.50 0.50	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.75 0.75	0.000	0.002	0.000	0.002	0.000	0.000	0.002	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.002	0.000	0.009
1.00 1.00	0.000	0.005	0.002	0.005	0.002	0.000	0.002	0.000	0.000	0.002	0.002	0.000	0.002	0.000	0.000	0.000	0.024
1.25 1.25	0.002	0.000	0.007	0.005	0.005	0.000	0.005	0.000	0.002	0.005	0.002	0.002	0.002	0.000	0.012	0.002	0.052
1.50 1.50	0.012	0.014	0.012	0.007	0.017	0.007	0.007	0.012	0.005	0.002	0.007	0.014	0.005	0.005	0.009	0.005	0.140
2.00 1.99	0.021	0.014	0.017	0.026	0.043	0.024	0.021	0.024	0.017	0.017	0.017	0.024	0.038	0.028	0.024	0.007	0.360
3.00 2.99	0.050	0.062	0.083	0.099	0.102	0.069	0.099	0.069	0.073	0.066	0.071	0.107	0.069	0.081	0.111	0.099	1.310
4.00 3.99	0.038	0.036	0.071	0.099	0.071	0.083	0.102	0.161	0.078	0.050	0.052	0.102	0.130	0.149	0.123	0.085	1.431
5.00 4.99	0.021	0.005	0.033	0.043	0.017	0.012	0.045	0.081	0.109	0.062	0.028	0.071	0.102	0.104	0.109	0.078	0.919
6.00 5.98	0.002	0.000	0.019	0.014	0.021	0.019	0.014	0.019	0.076	0.043	0.012	0.026	0.050	0.090	0.066	0.038	0.509
8.00 7.98	0.000	0.002	0.005	0.000	0.005	0.000	0.005	0.012	0.076	0.054	0.017	0.031	0.031	0.107	0.081	0.014	0.438
10.00 9.98	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.005	0.005	0.002	0.000	0.009	0.014	0.007	0.000	0.043
24.59 24.53	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	0.007	0.000	0.000	0.009
TOTAL	0.15	0.14	0.25	0.30	0.28	0.21	0.30	0.38	0.44	0.31	0.21	0.38	0.44	0.59	0.54	0.33	5.24

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
0.42 0.41	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.50 0.50	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.75 0.75	0.000	0.000	0.002	0.000	0.002	0.000	0.000	0.002	0.000	0.000	0.000	0.000	0.000	0.000	0.002	0.000	0.009
1.00 1.00	0.000	0.007	0.007	0.000	0.002	0.000	0.002	0.000	0.000	0.000	0.000	0.000	0.002	0.002	0.000	0.000	0.024
1.25 1.25	0.002	0.002	0.002	0.005	0.000	0.007	0.000	0.000	0.002	0.005	0.005	0.007	0.000	0.000	0.002	0.000	0.040

1.50	1.50	0.005	0.005	0.005	0.005	0.005	0.009	0.007	0.007	0.002	0.002	0.007	0.002	0.005	0.009	0.005	0.005	0.085
2.00	1.99	0.009	0.014	0.024	0.014	0.017	0.012	0.021	0.012	0.009	0.019	0.014	0.014	0.024	0.017	0.024	0.019	0.263
3.00	2.99	0.054	0.043	0.050	0.033	0.052	0.043	0.033	0.028	0.045	0.021	0.028	0.045	0.066	0.050	0.069	0.052	0.713
4.00	3.99	0.019	0.007	0.054	0.052	0.024	0.024	0.090	0.064	0.047	0.021	0.019	0.040	0.045	0.062	0.050	0.050	0.668
5.00	4.99	0.012	0.005	0.009	0.026	0.007	0.005	0.028	0.036	0.073	0.040	0.014	0.031	0.038	0.047	0.040	0.033	0.445
6.00	5.98	0.002	0.000	0.009	0.007	0.014	0.002	0.002	0.002	0.052	0.024	0.007	0.009	0.021	0.050	0.021	0.014	0.239
8.00	7.98	0.000	0.000	0.000	0.000	0.002	0.000	0.002	0.007	0.024	0.021	0.005	0.007	0.036	0.047	0.033	0.007	0.192
10.00	9.98	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.002	0.005	0.002	0.002	0.012	0.007	0.000	0.031
24.59	24.53	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.002	0.000	0.002	0.000	0.000	0.000	0.002	0.000	0.007
TOTAL		0.10	0.08	0.16	0.14	0.13	0.10	0.19	0.16	0.26	0.16	0.11	0.16	0.24	0.30	0.26	0.18	2.72

JOINT FREQUENCY DISTRIBUTION OF WIND SPEED AND DIRECTION  
WIND SPEED (M/S)

ATMOSPHERIC STABILITY CLASS D

TOWER RELEASE	N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	TOTAL
0.42	0.41	0.004	0.005	0.005	0.004	0.003	0.002	0.005	0.003	0.004	0.003	0.003	0.004	0.004	0.004	0.005	0.062
0.50	0.50	0.005	0.009	0.002	0.007	0.000	0.005	0.002	0.000	0.002	0.002	0.005	0.005	0.002	0.000	0.012	0.071
0.75	0.75	0.024	0.024	0.024	0.007	0.009	0.005	0.012	0.007	0.017	0.017	0.012	0.012	0.021	0.012	0.012	0.230
1.00	1.00	0.036	0.043	0.050	0.026	0.026	0.024	0.033	0.028	0.028	0.021	0.026	0.026	0.019	0.026	0.043	0.481
1.25	1.25	0.040	0.047	0.052	0.047	0.038	0.026	0.066	0.036	0.045	0.031	0.028	0.028	0.050	0.052	0.047	0.687
1.50	1.50	0.073	0.088	0.085	0.095	0.052	0.040	0.081	0.062	0.054	0.062	0.054	0.054	0.083	0.092	0.062	1.102
2.00	1.99	0.159	0.180	0.206	0.180	0.154	0.083	0.175	0.123	0.161	0.114	0.085	0.111	0.135	0.121	0.211	2.385
3.00	2.99	0.374	0.372	0.597	0.339	0.315	0.246	0.405	0.405	0.481	0.306	0.223	0.287	0.315	0.353	0.514	5.991
4.00	3.99	0.213	0.223	0.535	0.355	0.220	0.218	0.242	0.294	0.467	0.332	0.180	0.287	0.343	0.381	0.424	5.034
5.00	4.99	0.104	0.123	0.327	0.315	0.225	0.111	0.085	0.118	0.346	0.306	0.123	0.173	0.227	0.320	0.294	3.357
6.00	5.98	0.021	0.040	0.180	0.204	0.114	0.045	0.062	0.054	0.194	0.232	0.057	0.083	0.128	0.261	0.213	1.973
8.00	7.98	0.028	0.012	0.121	0.097	0.057	0.038	0.066	0.069	0.190	0.249	0.066	0.057	0.107	0.230	0.154	1.601
10.00	9.98	0.007	0.007	0.026	0.017	0.024	0.014	0.009	0.024	0.076	0.090	0.014	0.005	0.014	0.040	0.024	0.393
24.59	24.53	0.000	0.000	0.000	0.000	0.000	0.005	0.002	0.002	0.012	0.031	0.000	0.000	0.002	0.002	0.000	0.057
TOTAL		1.09	1.17	2.21	1.69	1.24	0.86	1.25	1.23	2.08	1.79	0.88	1.13	1.45	1.90	2.00	23.42

JOINT FREQUENCY DISTRIBUTION OF WIND SPEED AND DIRECTION  
WIND SPEED (M/S)

ATMOSPHERIC STABILITY CLASS E

TOWER RELEASE	N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	TOTAL
0.42	0.41	0.007	0.007	0.008	0.005	0.006	0.003	0.006	0.008	0.010	0.011	0.012	0.010	0.011	0.010	0.013	0.137
0.50	0.50	0.014	0.005	0.005	0.002	0.007	0.012	0.007	0.007	0.009	0.014	0.014	0.009	0.005	0.014	0.009	0.142
0.75	0.75	0.045	0.031	0.045	0.014	0.014	0.019	0.019	0.021	0.036	0.038	0.026	0.036	0.033	0.031	0.040	0.481
1.00	1.00	0.059	0.057	0.043	0.047	0.043	0.007	0.062	0.088	0.107	0.090	0.111	0.083	0.092	0.078	0.111	1.154
1.25	1.25	0.043	0.066	0.081	0.054	0.059	0.036	0.043	0.064	0.071	0.102	0.111	0.099	0.099	0.095	0.121	1.218
1.50	1.49	0.054	0.088	0.085	0.071	0.081	0.036	0.062	0.073	0.130	0.154	0.168	0.192	0.156	0.133	0.182	1.796
2.00	1.99	0.144	0.099	0.161	0.147	0.128	0.050	0.161	0.178	0.280	0.374	0.405	0.507	0.317	0.351	0.365	3.923
3.00	2.98	0.284	0.218	0.329	0.239	0.218	0.092	0.175	0.197	0.554	0.732	0.943	1.054	0.933	0.900	0.917	8.402
4.00	3.98	0.251	0.180	0.242	0.135	0.166	0.104	0.121	0.114	0.360	0.654	0.618	0.516	0.495	0.682	0.566	5.600
5.00	4.97	0.121	0.152	0.149	0.097	0.114	0.043	0.083	0.107	0.268	0.377	0.211	0.163	0.265	0.490	0.329	3.155
6.00	5.97	0.059	0.130	0.092	0.050	0.038	0.017	0.026	0.104	0.118	0.180	0.083	0.036	0.081	0.289	0.223	1.616
8.00	7.96	0.028	0.059	0.107	0.062	0.014	0.031	0.066	0.095	0.121	0.147	0.031	0.031	0.069	0.147	0.088	1.151
10.00	9.95	0.002	0.000	0.026	0.021	0.007	0.000	0.007	0.043	0.054	0.026	0.002	0.002	0.007	0.026	0.005	0.235
24.59	24.47	0.000	0.000	0.000	0.005	0.005	0.000	0.002	0.019	0.021	0.000	0.000	0.000	0.000	0.000	0.002	0.054
TOTAL		1.11	1.09	1.37	0.95	0.90	0.45	0.84	1.12	2.14	2.90	2.74	2.74	2.56	3.25	2.97	29.06

JOINT FREQUENCY DISTRIBUTION OF WIND SPEED AND DIRECTION  
WIND SPEED (M/S)

ATMOSPHERIC STABILITY CLASS F

TOWER RELEASE	N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	TOTAL
0.42	0.41	0.005	0.006	0.005	0.003	0.004	0.003	0.004	0.009	0.010	0.015	0.017	0.018	0.025	0.020	0.021	0.175
0.50	0.50	0.005	0.009	0.002	0.000	0.000	0.002	0.002	0.009	0.005	0.012	0.012	0.007	0.005	0.009	0.005	0.095

0.75	0.75	0.007	0.019	0.017	0.014	0.019	0.012	0.019	0.021	0.026	0.038	0.043	0.040	0.047	0.040	0.038	0.021	0.422
1.00	1.00	0.031	0.014	0.021	0.012	0.021	0.014	0.019	0.036	0.040	0.052	0.052	0.081	0.123	0.095	0.116	0.062	0.789
1.25	1.25	0.017	0.031	0.017	0.007	0.005	0.005	0.014	0.038	0.047	0.085	0.102	0.095	0.126	0.097	0.097	0.043	0.824
1.50	1.49	0.024	0.021	0.007	0.014	0.014	0.009	0.024	0.059	0.088	0.092	0.118	0.192	0.223	0.133	0.126	0.088	1.232
2.00	1.99	0.057	0.012	0.033	0.021	0.019	0.007	0.024	0.047	0.118	0.180	0.242	0.502	0.372	0.343	0.386	0.201	2.565
3.00	2.98	0.050	0.019	0.014	0.014	0.009	0.009	0.028	0.026	0.088	0.204	0.336	0.751	0.526	0.405	0.419	0.256	3.155
4.00	3.98	0.005	0.005	0.009	0.005	0.002	0.002	0.000	0.009	0.021	0.024	0.073	0.076	0.073	0.059	0.052	0.031	0.448
5.00	4.97	0.002	0.000	0.005	0.000	0.002	0.009	0.002	0.000	0.012	0.019	0.014	0.009	0.017	0.024	0.012	0.009	0.137
6.00	5.97	0.000	0.000	0.002	0.000	0.000	0.000	0.007	0.000	0.009	0.000	0.005	0.002	0.007	0.009	0.000	0.000	0.043
8.00	7.96	0.000	0.000	0.005	0.000	0.000	0.002	0.000	0.000	0.002	0.002	0.000	0.000	0.007	0.014	0.007	0.000	0.040
10.00	9.95	0.000	0.000	0.002	0.005	0.000	0.000	0.000	0.000	0.002	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.009
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		0.20	0.14	0.14	0.10	0.10	0.08	0.14	0.25	0.47	0.72	1.01	1.77	1.55	1.25	1.28	0.73	9.93

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
0.42 0.41	0.014	0.006	0.006	0.003	0.004	0.004	0.005	0.006	0.017	0.022	0.038	0.104	0.127	0.089	0.072	0.030	0.547
0.50 0.50	0.026	0.017	0.009	0.005	0.005	0.002	0.000	0.000	0.009	0.026	0.024	0.033	0.076	0.054	0.071	0.021	0.379
0.75 0.75	0.045	0.021	0.012	0.012	0.019	0.012	0.017	0.024	0.057	0.047	0.073	0.163	0.270	0.227	0.187	0.076	1.263
1.00 1.00	0.040	0.017	0.019	0.012	0.012	0.014	0.021	0.024	0.076	0.078	0.147	0.443	0.422	0.325	0.239	0.128	2.016
1.25 1.25	0.028	0.007	0.017	0.002	0.005	0.007	0.014	0.012	0.031	0.069	0.140	0.407	0.505	0.291	0.223	0.078	1.836
1.50 1.49	0.012	0.009	0.002	0.012	0.007	0.002	0.019	0.033	0.066	0.064	0.206	0.673	0.751	0.346	0.284	0.142	2.629
2.00 1.99	0.057	0.017	0.017	0.012	0.014	0.000	0.009	0.024	0.057	0.069	0.249	1.168	0.869	0.282	0.367	0.275	3.485
3.00 2.98	0.040	0.002	0.019	0.002	0.002	0.005	0.005	0.009	0.036	0.036	0.133	0.512	0.284	0.104	0.133	0.190	1.511
4.00 3.98	0.005	0.005	0.012	0.002	0.002	0.002	0.009	0.002	0.007	0.007	0.002	0.005	0.002	0.009	0.002	0.009	0.085
5.00 4.97	0.002	0.002	0.019	0.000	0.000	0.000	0.000	0.005	0.007	0.000	0.002	0.000	0.007	0.007	0.005	0.000	0.057
6.00 5.97	0.000	0.000	0.002	0.000	0.000	0.000	0.000	0.005	0.005	0.000	0.005	0.002	0.005	0.009	0.002	0.000	0.036
8.00 7.96	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.005	0.000	0.002	0.005	0.002	0.000	0.000	0.000	0.014
10.00 9.95	0.000	0.000	0.000	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
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	0.27	0.10	0.13	0.06	0.07	0.05	0.10	0.14	0.37	0.42	1.02	3.52	3.32	1.75	1.59	0.95	13.86

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:	3.2	2.9	4.9	4.5	3.7	2.7	4.1	4.1	7.2	7.0	6.5	10.5	10.8	11.0	10.5	6.3

OVERALL WIND SPEED FREQUENCY AS MEASURED ON THE TOWER:

MAX. WIND SPEED (M/S):	0.416	0.501	0.751	1.001	1.252	1.502	1.998	3.000	4.001	4.998	5.999	8.002	10.000	24.587
WIND SPEED FREQUENCY:	0.92	0.69	2.42	4.51	4.73	7.20	13.76	23.40	17.16	11.98	7.00	5.15	0.92	0.16

BUILDING AND RELEASE CHARACTERISTICS:

RELEASE HEIGHT: 10.00 METERS  
 MIXING VOLUME COEFFICIENT: 0.50  
 BUILDING CROSS-SECTIONAL AREA: 1913.00 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	414.	414.	414.	414.	414.	414.	414.	414.	414.	414.	414.	414.	414.	414.	414.	414.
BOUNDARY 2	3218.	3218.	3218.	3218.	3218.	3218.	3218.	3218.	3218.	3218.	3218.	3218.	3218.	3218.	3218.	3218.

THE CONVERSION FACTOR APPLIED TO THE WIND SPEED CLASSES IS 0.447

USNRC COMPUTER CODE-PAVAN, VERSION 2.0

RUN DATE: 03/07/07

PLANT NAME: Oyster Creek

METEOROLOGICAL INSTRUMENTATION

DATA PERIOD:

WIND SENSORS HEIGHT: Ground

TYPE OF RELEASE: Ground Release

DELTA-T HEIGHTS: 10.1-45.7 meters

SOURCE OF DATA:

COMMENTS: Oyster Creek, Ground Release, 1995-1999 met data

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)
0.41	0.86
0.41	0.92
0.50	1.54
0.50	1.61
0.75	3.78
0.75	4.03
1.00	7.99
1.00	8.54
1.25	12.42
1.25	13.27
1.49	18.93
1.50	20.47
1.99	30.44
1.99	34.23
2.98	47.30
2.99	57.63
3.98	63.77
3.99	74.79
4.97	78.14
4.99	86.77
5.97	88.47
5.98	93.78
7.96	94.98
7.98	98.92
9.95	99.17
9.98	99.84
24.47	99.89
24.53	100.00

WINDSPEED (INTERPOLATED) (METER/SEC)	CUMULATIVE FREQUENCY (PERCENT)
0.41	0.92
0.50	1.61
0.75	4.03
1.00	8.54
1.25	13.27
1.50	20.47
1.99	34.23
2.99	57.63
3.99	74.79
4.98	86.77

5.98	93.78
7.98	98.92
9.97	99.84
24.51	100.00

LOG-NORMAL INTERPOLATION PERCENTILES

WINDSPEED (METER/SEC)	CUMULATIVE FREQUENCY (PERCENT)
0.42	1.00
0.65	3.00
0.81	5.00
1.08	10.00
1.31	15.00
1.48	20.00
1.66	25.00
1.84	30.00
2.02	35.00
2.21	40.00
2.41	45.00
2.62	50.00
2.86	55.00
3.10	60.00
3.36	65.00
3.66	70.00
4.00	75.00
4.35	80.00
4.89	85.00
5.35	90.00

USNRC COMPUTER CODE-PAVAN, VERSION 2.0

RUN DATE: 03/07/07

PLANT NAME: Oyster Creek

METEOROLOGICAL INSTRUMENTATION

DATA PERIOD:

WIND SENSORS HEIGHT: Ground

TYPE OF RELEASE: Ground Release

DELTA-T HEIGHTS: 10.1-45.7 meters

SOURCE OF DATA:

COMMENTS: Oyster Creek, Ground Release, 1995-1999 met data

PROGRAM: PAVAN, 10/76, 8/79 REVISION, IMPLEMENTATION OF REGULATORY GUIDE 1.145

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

CLASS	METER/SEC AT 10.0 METERS	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	USED	
										CA= 957.SQ.METERS		
A	0.4	0.00	414.	0.	0.	84.5	88.5	84.5	1.026E-04	9.862E-05	9.862E-05	
A	0.7	0.07	414.	0.	0.	84.5	88.5	84.5	5.681E-05	5.459E-05	5.459E-05	
A	1.5	0.22	414.	0.	0.	84.5	88.5	84.5	2.841E-05	2.730E-05	2.730E-05	
A	2.0	0.82	414.	0.	0.	84.5	88.5	84.5	2.135E-05	2.052E-05	2.052E-05	
A	3.0	2.16	414.	0.	0.	84.5	88.5	84.5	1.422E-05	1.367E-05	1.367E-05	
A	4.0	1.94	414.	0.	0.	84.5	88.5	84.5	1.066E-05	1.025E-05	1.025E-05	
A	5.0	2.01	414.	0.	0.	84.5	88.5	84.5	8.537E-06	8.203E-06	8.203E-06	
A	6.0	0.45	414.	0.	0.	84.5	88.5	84.5	7.112E-06	6.834E-06	6.834E-06	
A	8.0	0.22	414.	0.	0.	84.5	88.5	84.5	5.332E-06	5.124E-06	5.124E-06	
B	1.2	0.07	414.	0.	0.	63.5	42.1	63.5	9.530E-05	8.556E-05	8.556E-05	
B	1.5	0.37	414.	0.	0.	63.5	42.1	63.5	7.942E-05	7.130E-05	7.130E-05	
B	2.0	0.67	414.	0.	0.	63.5	42.1	63.5	5.969E-05	5.360E-05	5.360E-05	
B	3.0	1.57	414.	0.	0.	63.5	42.1	63.5	3.977E-05	3.570E-05	3.570E-05	
B	4.0	1.19	414.	0.	0.	63.5	42.1	63.5	2.981E-05	2.677E-05	2.677E-05	
B	5.0	0.67	414.	0.	0.	63.5	42.1	63.5	2.387E-05	2.143E-05	2.143E-05	
B	6.0	0.07	414.	0.	0.	63.5	42.1	63.5	1.988E-05	1.785E-05	1.785E-05	
C	1.2	0.07	414.	0.	0.	48.2	27.4	48.2	1.932E-04	1.570E-04	1.570E-04	
C	1.5	0.15	414.	0.	0.	48.2	27.4	48.2	1.610E-04	1.308E-04	1.308E-04	
C	2.0	0.30	414.	0.	0.	48.2	27.4	48.2	1.210E-04	9.831E-05	9.831E-05	
C	3.0	1.72	414.	0.	0.	48.2	27.4	48.2	8.060E-05	6.549E-05	6.549E-05	
C	4.0	0.60	414.	0.	0.	48.2	27.4	48.2	6.043E-05	4.910E-05	4.910E-05	
C	5.0	0.37	414.	0.	0.	48.2	27.4	48.2	4.838E-05	3.931E-05	3.931E-05	
C	6.0	0.07	414.	0.	0.	48.2	27.4	48.2	4.030E-05	3.275E-05	3.275E-05	
D	0.4	0.14	414.	0.	0.	34.0	15.8	67.9	7.140E-04	9.116E-04	7.140E-04	
D	0.5	0.15	414.	0.	0.	34.0	15.8	67.9	5.928E-04	7.569E-04	5.928E-04	
D	0.7	0.75	414.	0.	0.	34.0	15.8	67.9	3.952E-04	5.046E-04	3.952E-04	
D	1.0	1.12	414.	0.	0.	34.0	15.8	67.9	2.964E-04	3.785E-04	2.964E-04	
D	1.2	1.27	414.	0.	0.	34.0	15.8	67.9	2.371E-04	3.028E-04	2.371E-04	
D	1.5	2.31	414.	0.	0.	34.0	15.8	67.9	1.976E-04	2.523E-04	1.976E-04	
D	2.0	5.00	414.	0.	0.	34.0	15.8	67.9	1.485E-04	1.897E-04	1.485E-04	
D	3.0	11.78	414.	0.	0.	34.0	15.8	52.7	1.276E-04	1.263E-04	1.263E-04	
D	4.0	6.71	414.	0.	0.	34.0	15.8	43.9	1.147E-04	9.472E-05	9.472E-05	
D	5.0	3.28	414.	0.	0.	34.0	15.8	38.2	1.057E-04	7.583E-05	7.583E-05	
D	6.0	0.67	414.	0.	0.	34.0	15.8	34.0	9.879E-05	6.317E-05	6.317E-05	
D	8.0	0.89	414.	0.	0.	34.0	15.8	34.0	7.419E-05	4.736E-05	4.736E-05	
D	10.0	0.22	414.	0.	0.	34.0	15.8	34.0	5.936E-05	3.790E-05	3.790E-05	
E	0.4	0.23	414.	0.	0.	24.2	11.2	72.5	9.441E-04	1.336E-03	9.441E-04	
E	0.5	0.45	414.	0.	0.	24.2	11.2	72.5	7.839E-04	1.109E-03	7.839E-04	
E	0.7	1.42	414.	0.	0.	24.2	11.2	72.5	5.226E-04	7.393E-04	5.226E-04	



E	1.0	1.86	414.	0.	0.	24.2	11.2	72.5	3.920E-04	5.545E-04	3.920E-04
E	1.2	1.34	414.	0.	0.	24.2	11.2	72.5	3.136E-04	4.436E-04	3.136E-04
E	1.5	1.72	414.	0.	0.	24.2	11.2	72.5	2.613E-04	3.697E-04	2.613E-04
E	2.0	4.55	414.	0.	0.	24.2	11.2	72.5	1.964E-04	2.779E-04	1.964E-04
E	3.0	8.95	414.	0.	0.	24.2	11.2	48.6	1.953E-04	1.851E-04	1.851E-04
E	4.0	7.90	414.	0.	0.	24.2	11.2	36.4	1.953E-04	1.388E-04	1.388E-04
E	5.0	3.80	414.	0.	0.	24.2	11.2	29.1	1.953E-04	1.111E-04	1.111E-04
E	6.0	1.86	414.	0.	0.	24.2	11.2	24.3	1.953E-04	9.255E-05	9.255E-05
E	8.0	0.89	414.	0.	0.	24.2	11.2	24.2	1.471E-04	6.939E-05	6.939E-05
E	10.0	0.07	414.	0.	0.	24.2	11.2	24.2	1.177E-04	5.552E-05	5.552E-05
F	0.4	0.15	414.	0.	0.	16.7	7.1	66.7	1.629E-03	2.172E-03	1.629E-03
F	0.5	0.15	414.	0.	0.	16.7	7.1	66.7	1.353E-03	1.804E-03	1.353E-03
F	0.7	0.22	414.	0.	0.	16.7	7.1	66.7	9.020E-04	1.203E-03	9.020E-04
F	1.0	0.97	414.	0.	0.	16.7	7.1	66.7	6.765E-04	9.019E-04	6.765E-04
F	1.2	0.52	414.	0.	0.	16.7	7.1	66.7	5.412E-04	7.215E-04	5.412E-04
F	1.5	0.75	414.	0.	0.	16.7	7.1	66.7	4.510E-04	6.013E-04	4.510E-04
F	2.0	1.79	414.	0.	0.	16.7	7.1	66.7	3.390E-04	4.520E-04	3.390E-04
F	3.0	1.57	414.	0.	0.	16.7	7.1	40.2	3.743E-04	3.011E-04	3.011E-04
F	4.0	0.15	414.	0.	0.	16.7	7.1	28.0	4.036E-04	2.257E-04	2.257E-04
F	5.0	0.07	414.	0.	0.	16.7	7.1	21.1	4.278E-04	1.807E-04	1.807E-04
G	0.4	0.44	414.	0.	0.	11.5	4.5	69.0	2.500E-03	4.999E-03	2.500E-03
G	0.5	0.82	414.	0.	0.	11.5	4.5	69.0	2.076E-03	4.151E-03	2.076E-03
G	0.7	1.42	414.	0.	0.	11.5	4.5	69.0	1.384E-03	2.768E-03	1.384E-03
G	1.0	1.27	414.	0.	0.	11.5	4.5	69.0	1.038E-03	2.076E-03	1.038E-03
G	1.2	0.89	414.	0.	0.	11.5	4.5	69.0	8.303E-04	1.661E-03	8.303E-04
G	1.5	0.37	414.	0.	0.	11.5	4.5	69.0	6.920E-04	1.384E-03	6.920E-04
G	2.0	1.79	414.	0.	0.	11.5	4.5	69.0	5.201E-04	1.040E-03	5.201E-04
G	3.0	1.27	414.	0.	0.	11.5	4.5	35.9	6.657E-04	6.929E-04	6.657E-04
G	4.0	0.15	414.	0.	0.	11.5	4.5	22.5	7.984E-04	5.195E-04	5.195E-04
G	5.0	0.07	414.	0.	0.	11.5	4.5	15.6	9.187E-04	4.159E-04	4.159E-04

USNRC COMPUTER CODE-PAVAN, VERSION 2.0

RUN DATE: 03/07/07

PLANT NAME: Oyster Creek

METEOROLOGICAL INSTRUMENTATION

DATA PERIOD:

WIND SENSORS HEIGHT: Ground

TYPE OF RELEASE: Ground Release

DELTA-T HEIGHTS: 10.1-45.7 meters

SOURCE OF DATA:

COMMENTS: Oyster Creek, Ground Release, 1995-1999 met data

PROGRAM: PAVAN, 10/76, 8/79 REVISION, IMPLEMENTATION OF REGULATORY GUIDE 1.145

SITE EXCLUSION BOUNDARY CALCULATIONS:

S SECTOR      BOUNDARY DISTANCE = 414.0 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= 1913.    D= 44.8

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.

2.500E-03	2.076E-03	1.629E-03	1.384E-03	1.353E-03	1.038E-03	9.441E-04	9.020E-04	8.303E-04	7.839E-04
0.438	1.259	1.412	2.829	2.978	4.246	4.479	4.702	5.597	6.045
0.01392	0.03998	0.04485	0.08986	0.09460	0.13487	0.14226	0.14937	0.17779	0.19201
7.140E-04	6.920E-04	6.765E-04	6.657E-04	5.928E-04	5.412E-04	5.226E-04	5.201E-04	5.195E-04	4.510E-04
6.182	6.555	7.525	8.792	8.942	9.464	10.881	12.670	12.820	13.565
0.19638	0.20822	0.23902	0.27929	0.28402	0.30060	0.34561	0.40246	0.40720	0.43089
4.159E-04	3.952E-04	3.920E-04	3.390E-04	3.136E-04	3.011E-04	2.964E-04	2.613E-04	2.371E-04	2.257E-04
13.640	14.386	16.250	18.040	19.382	20.948	22.067	23.782	25.050	25.199
0.43326	0.45695	0.51617	0.57302	0.61566	0.66540	0.70094	0.75542	0.79569	0.80043
1.976E-04	1.964E-04	1.851E-04	1.807E-04	1.570E-04	1.485E-04	1.388E-04	1.308E-04	1.263E-04	1.111E-04
27.511	32.060	41.009	41.084	41.158	46.155	54.060	54.209	65.992	69.795
0.87386	1.01836	1.30262	1.30499	1.30736	1.46607	1.71716	1.72190	2.09617	2.21698
9.862E-05	9.831E-05	9.472E-05	9.255E-05	8.556E-05	7.583E-05	7.130E-05	6.939E-05	6.549E-05	6.317E-05
69.797	70.095	76.807	78.671	78.746	82.027	82.400	83.295	85.010	85.681
2.21704	2.22652	2.43971	2.49893	2.50130	2.60553	2.61737	2.64580	2.70028	2.72160
5.552E-05	5.459E-05	5.360E-05	4.910E-05	4.736E-05	3.931E-05	3.790E-05	3.570E-05	3.275E-05	2.730E-05
85.756	85.831	86.502	87.098	87.993	88.366	88.590	90.156	90.231	90.454
2.72397	2.72634	2.74766	2.76661	2.79503	2.80688	2.81398	2.86373	2.86610	2.87321
2.677E-05	2.143E-05	2.052E-05	1.785E-05	1.367E-05	1.025E-05	8.203E-06	6.834E-06	5.124E-06	
91.648	92.319	93.139	93.214	95.376	97.315	99.329	99.776	100.000	
2.91111	2.93243	2.95848	2.96085	3.02955	3.09114	3.15510	3.16931	3.17642	

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)= 0.095  
 HANDCHECK GRAPH: SLOPE LT -1.0 FOR LOW PERCENTAGES. XSAVE ( 4)= 0.279  
 HANDCHECK GRAPH: SLOPE LT -1.0 FOR LOW PERCENTAGES. XSAVE ( 5)= 0.407  
 HANDCHECK GRAPH: SLOPE LT -1.0 FOR LOW PERCENTAGES. XSAVE ( 6)= 0.700  
 HANDCHECK GRAPH: SLOPE LT -1.0 FOR LOW PERCENTAGES. XSAVE ( 7)= 1.301  
 HANDCHECK GRAPH: SLOPE LT -1.0 FOR LOW PERCENTAGES. XSAVE ( 8)= 2.094  
 HANDCHECK GRAPH: SLOPE LT -1.0 FOR LOW PERCENTAGES. XSAVE ( 9)= 2.496

K	I	XQSAVE(K, I)	XQINT(K, I)	XQSLOP(K, I)
1	1	-5.99148	-8.39134	-0.66026
1	2	-6.17738	-12.00727	-1.73863
1	3	-6.60541	-13.17488	-2.11443
1	4	-7.31468	-12.80886	-1.98237
1	5	-7.56266	-15.40938	-2.96502
1	6	-8.12372	-13.12540	-2.03552
1	7	-8.59460	-13.04140	-1.99777
1	8	-8.97649	-17.51892	-4.19834
1	9	-9.28775	NUMXQ(K)= 9	
		2.164E-03	0.032	1.000
		1.347E-03	0.095	3.000
		9.718E-04	0.159	5.000
		6.123E-04	0.318	10.000
		4.432E-04	0.476	15.000
		3.290E-04	0.635	20.000
		2.704E-04	0.794	25.000
		2.358E-04	0.953	30.000
		2.095E-04	1.112	35.000
		1.888E-04	1.271	40.000
		1.722E-04	1.429	45.000
		1.584E-04	1.588	50.000
		1.467E-04	1.747	55.000
		1.367E-04	1.906	60.000
		1.279E-04	2.065	65.000
		1.139E-04	2.223	70.000
		1.008E-04	2.382	75.000
		4.219E-04	0.5	15.74

ANNUAL AVERAGE = 5.52E-06

K= 1 FIVEXQ(K)= 4.219E-04 FIVEPR(K)=15.741

USNRC COMPUTER CODE-PAVAN, VERSION 2.0

RUN DATE: 03/07/07

PLANT NAME: Oyster Creek

METEOROLOGICAL INSTRUMENTATION

DATA PERIOD:

WIND SENSORS HEIGHT: Ground

TYPE OF RELEASE: Ground Release

DELTA-T HEIGHTS: 10.1-45.7 meters

SOURCE OF DATA:

COMMENTS: Oyster Creek, Ground Release, 1995-1999 met data

PROGRAM: PAVAN, 10/76, 8/79 REVISION, IMPLEMENTATION OF REGULATORY GUIDE 1.145

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

CLASS	METER/SEC AT 10.0 METERS	PERCENT	DISTANCE METERS	TERRAIN METERS	HT EFF METERS	SIGMA-Y METERS	SIGMA-Z METERS	MEANDER-SY METERS	** CHI/Q VALUES (SEC/CUBIC METER)			
									MEANDER	BLDG WAKE	USED	
										CA= 957.SQ.METERS		
A	0.4	0.00	414.	0.	0.	84.5	88.5	84.5	1.026E-04	9.862E-05	9.862E-05	
A	1.2	0.08	414.	0.	0.	84.5	88.5	84.5	3.409E-05	3.275E-05	3.275E-05	
A	1.5	0.32	414.	0.	0.	84.5	88.5	84.5	2.841E-05	2.730E-05	2.730E-05	
A	2.0	0.73	414.	0.	0.	84.5	88.5	84.5	2.135E-05	2.052E-05	2.052E-05	
A	3.0	2.02	414.	0.	0.	84.5	88.5	84.5	1.422E-05	1.367E-05	1.367E-05	
A	4.0	2.42	414.	0.	0.	84.5	88.5	84.5	1.066E-05	1.025E-05	1.025E-05	
A	5.0	1.05	414.	0.	0.	84.5	88.5	84.5	8.537E-06	8.203E-06	8.203E-06	
A	6.0	0.48	414.	0.	0.	84.5	88.5	84.5	7.112E-06	6.834E-06	6.834E-06	
B	0.7	0.08	414.	0.	0.	63.5	42.1	63.5	1.588E-04	1.426E-04	1.426E-04	
B	1.0	0.16	414.	0.	0.	63.5	42.1	63.5	1.191E-04	1.070E-04	1.070E-04	
B	1.5	0.48	414.	0.	0.	63.5	42.1	63.5	7.942E-05	7.130E-05	7.130E-05	
B	2.0	0.48	414.	0.	0.	63.5	42.1	63.5	5.969E-05	5.360E-05	5.360E-05	
B	3.0	2.10	414.	0.	0.	63.5	42.1	63.5	3.977E-05	3.570E-05	3.570E-05	
B	4.0	1.21	414.	0.	0.	63.5	42.1	63.5	2.981E-05	2.677E-05	2.677E-05	
B	5.0	0.16	414.	0.	0.	63.5	42.1	63.5	2.387E-05	2.143E-05	2.143E-05	
B	8.0	0.08	414.	0.	0.	63.5	42.1	63.5	1.491E-05	1.338E-05	1.338E-05	
C	1.0	0.24	414.	0.	0.	48.2	27.4	48.2	2.414E-04	1.962E-04	1.962E-04	
C	1.2	0.08	414.	0.	0.	48.2	27.4	48.2	1.932E-04	1.570E-04	1.570E-04	
C	1.5	0.16	414.	0.	0.	48.2	27.4	48.2	1.610E-04	1.308E-04	1.308E-04	
C	2.0	0.48	414.	0.	0.	48.2	27.4	48.2	1.210E-04	9.831E-05	9.831E-05	
C	3.0	1.45	414.	0.	0.	48.2	27.4	48.2	8.060E-05	6.549E-05	6.549E-05	
C	4.0	0.24	414.	0.	0.	48.2	27.4	48.2	6.043E-05	4.910E-05	4.910E-05	
C	5.0	0.16	414.	0.	0.	48.2	27.4	48.2	4.838E-05	3.931E-05	3.931E-05	
D	0.4	0.18	414.	0.	0.	34.0	15.8	67.9	7.140E-04	9.116E-04	7.140E-04	
D	0.5	0.32	414.	0.	0.	34.0	15.8	67.9	5.928E-04	7.569E-04	5.928E-04	
D	0.7	0.81	414.	0.	0.	34.0	15.8	67.9	3.952E-04	5.046E-04	3.952E-04	
D	1.0	1.45	414.	0.	0.	34.0	15.8	67.9	2.964E-04	3.785E-04	2.964E-04	
D	1.2	1.61	414.	0.	0.	34.0	15.8	67.9	2.371E-04	3.028E-04	2.371E-04	
D	1.5	2.99	414.	0.	0.	34.0	15.8	67.9	1.976E-04	2.523E-04	1.976E-04	
D	2.0	6.13	414.	0.	0.	34.0	15.8	67.9	1.485E-04	1.897E-04	1.485E-04	
D	3.0	12.67	414.	0.	0.	34.0	15.8	52.7	1.276E-04	1.263E-04	1.263E-04	
D	4.0	7.58	414.	0.	0.	34.0	15.8	43.9	1.147E-04	9.472E-05	9.472E-05	
D	5.0	4.20	414.	0.	0.	34.0	15.8	38.2	1.057E-04	7.583E-05	7.583E-05	
D	6.0	1.37	414.	0.	0.	34.0	15.8	34.0	9.879E-05	6.317E-05	6.317E-05	
D	8.0	0.40	414.	0.	0.	34.0	15.8	34.0	7.419E-05	4.736E-05	4.736E-05	
D	10.0	0.24	414.	0.	0.	34.0	15.8	34.0	5.936E-05	3.790E-05	3.790E-05	
E	0.4	0.25	414.	0.	0.	24.2	11.2	72.5	9.441E-04	1.336E-03	9.441E-04	
E	0.5	0.16	414.	0.	0.	24.2	11.2	72.5	7.839E-04	1.109E-03	7.839E-04	
E	0.7	1.05	414.	0.	0.	24.2	11.2	72.5	5.226E-04	7.393E-04	5.226E-04	

E	1.0	1.94	414.	0.	0.	24.2	11.2	72.5	3.920E-04	5.545E-04	3.920E-04
E	1.2	2.26	414.	0.	0.	24.2	11.2	72.5	3.136E-04	4.436E-04	3.136E-04
E	1.5	2.99	414.	0.	0.	24.2	11.2	72.5	2.613E-04	3.697E-04	2.613E-04
E	2.0	3.39	414.	0.	0.	24.2	11.2	72.5	1.964E-04	2.779E-04	1.964E-04
E	3.0	7.42	414.	0.	0.	24.2	11.2	48.6	1.953E-04	1.851E-04	1.851E-04
E	4.0	6.13	414.	0.	0.	24.2	11.2	36.4	1.953E-04	1.388E-04	1.388E-04
E	5.0	5.16	414.	0.	0.	24.2	11.2	29.1	1.953E-04	1.111E-04	1.111E-04
E	6.0	4.44	414.	0.	0.	24.2	11.2	24.3	1.953E-04	9.255E-05	9.255E-05
E	8.0	2.02	414.	0.	0.	24.2	11.2	24.2	1.471E-04	6.939E-05	6.939E-05
F	0.4	0.21	414.	0.	0.	16.7	7.1	66.7	1.629E-03	2.172E-03	1.629E-03
F	0.5	0.32	414.	0.	0.	16.7	7.1	66.7	1.353E-03	1.804E-03	1.353E-03
F	0.7	0.65	414.	0.	0.	16.7	7.1	66.7	9.020E-04	1.203E-03	9.020E-04
F	1.0	0.48	414.	0.	0.	16.7	7.1	66.7	6.765E-04	9.019E-04	6.765E-04
F	1.2	1.05	414.	0.	0.	16.7	7.1	66.7	5.412E-04	7.215E-04	5.412E-04
F	1.5	0.73	414.	0.	0.	16.7	7.1	66.7	4.510E-04	6.013E-04	4.510E-04
F	2.0	0.40	414.	0.	0.	16.7	7.1	66.7	3.390E-04	4.520E-04	3.390E-04
F	3.0	0.65	414.	0.	0.	16.7	7.1	40.2	3.743E-04	3.011E-04	3.011E-04
F	4.0	0.16	414.	0.	0.	16.7	7.1	28.0	4.036E-04	2.257E-04	2.257E-04
G	0.4	0.21	414.	0.	0.	11.5	4.5	69.0	2.500E-03	4.999E-03	2.500E-03
G	0.5	0.56	414.	0.	0.	11.5	4.5	69.0	2.076E-03	4.151E-03	2.076E-03
G	0.7	0.73	414.	0.	0.	11.5	4.5	69.0	1.384E-03	2.768E-03	1.384E-03
G	1.0	0.56	414.	0.	0.	11.5	4.5	69.0	1.038E-03	2.076E-03	1.038E-03
G	1.2	0.24	414.	0.	0.	11.5	4.5	69.0	8.303E-04	1.661E-03	8.303E-04
G	1.5	0.32	414.	0.	0.	11.5	4.5	69.0	6.920E-04	1.384E-03	6.920E-04
G	2.0	0.56	414.	0.	0.	11.5	4.5	69.0	5.201E-04	1.040E-03	5.201E-04
G	3.0	0.08	414.	0.	0.	11.5	4.5	35.9	6.657E-04	6.929E-04	6.657E-04
G	4.0	0.16	414.	0.	0.	11.5	4.5	22.5	7.984E-04	5.195E-04	5.195E-04
G	5.0	0.08	414.	0.	0.	11.5	4.5	15.6	9.187E-04	4.159E-04	4.159E-04

USNRC COMPUTER CODE-PAVAN, VERSION 2.0

RUN DATE: 03/07/07

PLANT NAME: Oyster Creek	METEOROLOGICAL INSTRUMENTATION
DATA PERIOD:	WIND SENSORS HEIGHT: Ground
TYPE OF RELEASE: Ground Release	DELTA-T HEIGHTS: 10.1-45.7 meters
SOURCE OF DATA:	
COMMENTS: Oyster Creek, Ground Release, 1995-1999 met data	
PROGRAM: PAVAN, 10/76, 8/79 REVISION, IMPLEMENTATION OF REGULATORY GUIDE 1.145	

SITE EXCLUSION BOUNDARY CALCULATIONS:

SSW SECTOR      BOUNDARY DISTANCE = 414.0 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= 1913.    D= 44.8

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.

2.500E-03	2.076E-03	1.629E-03	1.384E-03	1.353E-03	1.038E-03	9.441E-04	9.020E-04	8.303E-04	7.839E-04
0.209	0.774	0.980	1.706	2.029	2.593	2.841	3.487	3.729	3.890
0.00614	0.02272	0.02876	0.05008	0.05956	0.07614	0.08342	0.10237	0.10948	0.11422
7.140E-04	6.920E-04	6.765E-04	6.657E-04	5.928E-04	5.412E-04	5.226E-04	5.201E-04	5.195E-04	4.510E-04
4.066	4.389	4.873	4.954	5.276	6.325	7.374	7.939	8.100	8.826
0.11938	0.12886	0.14307	0.14544	0.15491	0.18571	0.21650	0.23308	0.23782	0.25914
4.159E-04	3.952E-04	3.920E-04	3.390E-04	3.136E-04	3.011E-04	2.964E-04	2.613E-04	2.371E-04	2.257E-04
8.907	9.714	11.650	12.054	14.313	14.958	16.411	19.396	21.010	21.171
0.26151	0.28520	0.34205	0.35389	0.42022	0.43917	0.48181	0.56946	0.61683	0.62157
1.976E-04	1.964E-04	1.962E-04	1.851E-04	1.570E-04	1.485E-04	1.426E-04	1.388E-04	1.308E-04	1.263E-04
24.156	27.545	27.787	35.210	35.290	41.422	41.503	47.635	47.796	60.464
0.70922	0.80871	0.81582	1.03375	1.03612	1.21615	1.21852	1.39855	1.40328	1.77519
1.111E-04	1.070E-04	9.862E-05	9.831E-05	9.472E-05	9.255E-05	7.583E-05	7.130E-05	6.939E-05	6.549E-05
65.627	65.789	65.790	66.275	73.859	78.296	82.492	82.976	84.993	86.445
1.92680	1.93153	1.93159	1.94580	2.16847	2.29876	2.42194	2.43615	2.49537	2.53801
6.317E-05	5.360E-05	4.910E-05	4.736E-05	3.931E-05	3.790E-05	3.570E-05	3.275E-05	2.730E-05	2.677E-05
87.817	88.301	88.543	88.946	89.108	89.350	91.448	91.528	91.851	93.061
2.57828	2.59249	2.59960	2.61144	2.61618	2.62329	2.68488	2.68724	2.69672	2.73225
2.143E-05	2.052E-05	1.367E-05	1.338E-05	1.025E-05	8.203E-06	6.834E-06			
93.223	93.949	95.966	96.047	98.467	99.516	100.000			
2.73699	2.75831	2.81753	2.81990	2.89096	2.92176	2.93597			

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)= 0.060  
 HANDCHECK GRAPH: SLOPE LT -1.0 FOR LOW PERCENTAGES. XSAVE ( 4)= 0.102  
 HANDCHECK GRAPH: SLOPE LT -1.0 FOR LOW PERCENTAGES. XSAVE ( 5)= 0.216  
 HANDCHECK GRAPH: SLOPE LT -1.0 FOR LOW PERCENTAGES. XSAVE ( 7)= 0.569  
 HANDCHECK GRAPH: SLOPE LT -1.0 FOR LOW PERCENTAGES. XSAVE ( 8)= 1.033  
 HANDCHECK GRAPH: SLOPE LT -1.0 FOR LOW PERCENTAGES. XSAVE ( 9)= 1.773

K	I	XQSAVE(K, I)	XQINT(K, I)	XQSLOP(K, I)
2	1	-5.99148	-8.12764	-0.55618
2	2	-6.17738	-11.83565	-1.61365
2	3	-6.60541	-14.93967	-2.57131
2	4	-7.01087	-14.32370	-2.37156
2	5	-7.55668	-8.12597	-0.19951
2	6	-7.56266	-14.19577	-2.34930
2	7	-8.24983	-12.27786	-1.59152
2	8	-8.59460	-12.77732	-1.80733
2	9	-8.97649	NUMXQ(K)= 9	
		1.858E-03	0.029	1.000
		1.011E-03	0.088	3.000
		6.968E-04	0.147	5.000
		4.426E-04	0.294	10.000
		3.220E-04	0.440	15.000
		2.569E-04	0.587	20.000
		2.263E-04	0.734	25.000
		2.036E-04	0.881	30.000
		1.858E-04	1.028	35.000
		1.696E-04	1.174	40.000
		1.562E-04	1.321	45.000
		1.450E-04	1.468	50.000
		1.354E-04	1.615	55.000
		1.271E-04	1.762	60.000
		2.906E-04	0.5	17.03

ANNUAL AVERAGE = 4.31E-06

K= 2 FIVEXQ(K)= 2.906E-04 FIVEPR(K)=17.030

USNRC COMPUTER CODE-PAVAN, VERSION 2.0

RUN DATE: 03/07/07

PLANT NAME: Oyster Creek

METEOROLOGICAL INSTRUMENTATION

DATA PERIOD:

WIND SENSORS HEIGHT: Ground

TYPE OF RELEASE: Ground Release

DELTA-T HEIGHTS: 10.1-45.7 meters

SOURCE OF DATA:

COMMENTS: Oyster Creek, Ground Release, 1995-1999 met data

PROGRAM: PAVAN, 10/76, 8/79 REVISION, IMPLEMENTATION OF REGULATORY GUIDE 1.145

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

CLASS	METER/SEC	PERCENT	METERS	METERS	METERS	SIGMA-Y	SIGMA-Z	MEANDER-SY	** CHI/Q VALUES (SEC/CUBIC METER)	MEANDER	BLDG WAKE	USED
									CA= 957.SQ.METERS			
AT 10.0 METERS												
A	0.4	0.00	414.	0.	0.	84.5	88.5	84.5	1.026E-04	9.862E-05	9.862E-05	
A	1.0	0.05	414.	0.	0.	84.5	88.5	84.5	4.261E-05	4.094E-05	4.094E-05	
A	1.2	0.10	414.	0.	0.	84.5	88.5	84.5	3.409E-05	3.275E-05	3.275E-05	
A	1.5	0.10	414.	0.	0.	84.5	88.5	84.5	2.841E-05	2.730E-05	2.730E-05	
A	2.0	0.62	414.	0.	0.	84.5	88.5	84.5	2.135E-05	2.052E-05	2.052E-05	
A	3.0	2.11	414.	0.	0.	84.5	88.5	84.5	1.422E-05	1.367E-05	1.367E-05	
A	4.0	4.65	414.	0.	0.	84.5	88.5	84.5	1.066E-05	1.025E-05	1.025E-05	
A	5.0	3.84	414.	0.	0.	84.5	88.5	84.5	8.537E-06	8.203E-06	8.203E-06	
A	6.0	1.49	414.	0.	0.	84.5	88.5	84.5	7.112E-06	6.834E-06	6.834E-06	
A	8.0	0.62	414.	0.	0.	84.5	88.5	84.5	5.332E-06	5.124E-06	5.124E-06	
B	1.0	0.05	414.	0.	0.	63.5	42.1	63.5	1.191E-04	1.070E-04	1.070E-04	
B	1.2	0.14	414.	0.	0.	63.5	42.1	63.5	9.530E-05	8.556E-05	8.556E-05	
B	1.5	0.24	414.	0.	0.	63.5	42.1	63.5	7.942E-05	7.130E-05	7.130E-05	
B	2.0	0.34	414.	0.	0.	63.5	42.1	63.5	5.969E-05	5.360E-05	5.360E-05	
B	3.0	1.68	414.	0.	0.	63.5	42.1	63.5	3.977E-05	3.570E-05	3.570E-05	
B	4.0	1.44	414.	0.	0.	63.5	42.1	63.5	2.981E-05	2.677E-05	2.677E-05	
B	5.0	0.67	414.	0.	0.	63.5	42.1	63.5	2.387E-05	2.143E-05	2.143E-05	
B	6.0	0.38	414.	0.	0.	63.5	42.1	63.5	1.988E-05	1.785E-05	1.785E-05	
B	8.0	0.10	414.	0.	0.	63.5	42.1	63.5	1.491E-05	1.338E-05	1.338E-05	
C	0.7	0.05	414.	0.	0.	48.2	27.4	48.2	3.219E-04	2.616E-04	2.616E-04	
C	1.0	0.14	414.	0.	0.	48.2	27.4	48.2	2.414E-04	1.962E-04	1.962E-04	
C	1.2	0.05	414.	0.	0.	48.2	27.4	48.2	1.932E-04	1.570E-04	1.570E-04	
C	1.5	0.10	414.	0.	0.	48.2	27.4	48.2	1.610E-04	1.308E-04	1.308E-04	
C	2.0	0.48	414.	0.	0.	48.2	27.4	48.2	1.210E-04	9.831E-05	9.831E-05	
C	3.0	1.01	414.	0.	0.	48.2	27.4	48.2	8.060E-05	6.549E-05	6.549E-05	
C	4.0	1.10	414.	0.	0.	48.2	27.4	48.2	6.043E-05	4.910E-05	4.910E-05	
C	5.0	0.19	414.	0.	0.	48.2	27.4	48.2	4.838E-05	3.931E-05	3.931E-05	
C	6.0	0.19	414.	0.	0.	48.2	27.4	48.2	4.030E-05	3.275E-05	3.275E-05	
D	0.4	0.11	414.	0.	0.	34.0	15.8	67.9	7.140E-04	9.116E-04	7.140E-04	
D	0.5	0.05	414.	0.	0.	34.0	15.8	67.9	5.928E-04	7.569E-04	5.928E-04	
D	0.7	0.48	414.	0.	0.	34.0	15.8	67.9	3.952E-04	5.046E-04	3.952E-04	
D	1.0	1.01	414.	0.	0.	34.0	15.8	67.9	2.964E-04	3.785E-04	2.964E-04	
D	1.2	1.06	414.	0.	0.	34.0	15.8	67.9	2.371E-04	3.028E-04	2.371E-04	
D	1.5	1.73	414.	0.	0.	34.0	15.8	67.9	1.976E-04	2.523E-04	1.976E-04	
D	2.0	4.17	414.	0.	0.	34.0	15.8	67.9	1.485E-04	1.897E-04	1.485E-04	
D	3.0	12.09	414.	0.	0.	34.0	15.8	52.7	1.276E-04	1.263E-04	1.263E-04	
D	4.0	10.84	414.	0.	0.	34.0	15.8	43.9	1.147E-04	9.472E-05	9.472E-05	
D	5.0	6.62	414.	0.	0.	34.0	15.8	38.2	1.057E-04	7.583E-05	7.583E-05	
D	6.0	3.64	414.	0.	0.	34.0	15.8	34.0	9.879E-05	6.317E-05	6.317E-05	
D	8.0	2.45	414.	0.	0.	34.0	15.8	34.0	7.419E-05	4.736E-05	4.736E-05	



D	10.0	0.53	414.	0.	0.	34.0	15.8	34.0	5.936E-05	3.790E-05	3.790E-05
E	0.4	0.16	414.	0.	0.	24.2	11.2	72.5	9.441E-04	1.336E-03	9.441E-04
E	0.5	0.10	414.	0.	0.	24.2	11.2	72.5	7.839E-04	1.109E-03	7.839E-04
E	0.7	0.91	414.	0.	0.	24.2	11.2	72.5	5.226E-04	7.393E-04	5.226E-04
E	1.0	0.86	414.	0.	0.	24.2	11.2	72.5	3.920E-04	5.545E-04	3.920E-04
E	1.2	1.63	414.	0.	0.	24.2	11.2	72.5	3.136E-04	4.436E-04	3.136E-04
E	1.5	1.73	414.	0.	0.	24.2	11.2	72.5	2.613E-04	3.697E-04	2.613E-04
E	2.0	3.26	414.	0.	0.	24.2	11.2	72.5	1.964E-04	2.779E-04	1.964E-04
E	3.0	6.67	414.	0.	0.	24.2	11.2	48.6	1.953E-04	1.851E-04	1.851E-04
E	4.0	4.89	414.	0.	0.	24.2	11.2	36.4	1.953E-04	1.388E-04	1.388E-04
E	5.0	3.02	414.	0.	0.	24.2	11.2	29.1	1.953E-04	1.111E-04	1.111E-04
E	6.0	1.87	414.	0.	0.	24.2	11.2	24.3	1.953E-04	9.255E-05	9.255E-05
E	8.0	2.16	414.	0.	0.	24.2	11.2	24.2	1.471E-04	6.939E-05	6.939E-05
E	10.0	0.53	414.	0.	0.	24.2	11.2	24.2	1.177E-04	5.552E-05	5.552E-05
F	0.4	0.09	414.	0.	0.	16.7	7.1	66.7	1.629E-03	2.172E-03	1.629E-03
F	0.5	0.05	414.	0.	0.	16.7	7.1	66.7	1.353E-03	1.804E-03	1.353E-03
F	0.7	0.34	414.	0.	0.	16.7	7.1	66.7	9.020E-04	1.203E-03	9.020E-04
F	1.0	0.43	414.	0.	0.	16.7	7.1	66.7	6.765E-04	9.019E-04	6.765E-04
F	1.2	0.34	414.	0.	0.	16.7	7.1	66.7	5.412E-04	7.215E-04	5.412E-04
F	1.5	0.14	414.	0.	0.	16.7	7.1	66.7	4.510E-04	6.013E-04	4.510E-04
F	2.0	0.67	414.	0.	0.	16.7	7.1	66.7	3.390E-04	4.520E-04	3.390E-04
F	3.0	0.29	414.	0.	0.	16.7	7.1	40.2	3.743E-04	3.011E-04	3.011E-04
F	4.0	0.19	414.	0.	0.	16.7	7.1	28.0	4.036E-04	2.257E-04	2.257E-04
F	5.0	0.10	414.	0.	0.	16.7	7.1	21.1	4.278E-04	1.807E-04	1.807E-04
F	6.0	0.05	414.	0.	0.	16.7	7.1	16.8	4.488E-04	1.505E-04	1.505E-04
F	8.0	0.10	414.	0.	0.	16.7	7.1	16.7	3.386E-04	1.129E-04	1.129E-04
F	10.0	0.05	414.	0.	0.	16.7	7.1	16.7	2.710E-04	9.031E-05	9.031E-05
G	0.4	0.11	414.	0.	0.	11.5	4.5	69.0	2.500E-03	4.999E-03	2.500E-03
G	0.5	0.19	414.	0.	0.	11.5	4.5	69.0	2.076E-03	4.151E-03	2.076E-03
G	0.7	0.24	414.	0.	0.	11.5	4.5	69.0	1.384E-03	2.768E-03	1.384E-03
G	1.0	0.38	414.	0.	0.	11.5	4.5	69.0	1.038E-03	2.076E-03	1.038E-03
G	1.2	0.34	414.	0.	0.	11.5	4.5	69.0	8.303E-04	1.661E-03	8.303E-04
G	1.5	0.05	414.	0.	0.	11.5	4.5	69.0	6.920E-04	1.384E-03	6.920E-04
G	2.0	0.34	414.	0.	0.	11.5	4.5	69.0	5.201E-04	1.040E-03	5.201E-04
G	3.0	0.38	414.	0.	0.	11.5	4.5	35.9	6.657E-04	6.929E-04	6.657E-04
G	4.0	0.24	414.	0.	0.	11.5	4.5	22.5	7.984E-04	5.195E-04	5.195E-04
G	5.0	0.38	414.	0.	0.	11.5	4.5	15.6	9.187E-04	4.159E-04	4.159E-04
G	6.0	0.05	414.	0.	0.	11.5	4.5	11.6	1.031E-03	3.465E-04	3.465E-04

USNRC COMPUTER CODE-PAVAN, VERSION 2.0

RUN DATE: 03/07/07

PLANT NAME: Oyster Creek

METEOROLOGICAL INSTRUMENTATION

DATA PERIOD:

WIND SENSORS HEIGHT: Ground

TYPE OF RELEASE: Ground Release

DELTA-T HEIGHTS: 10.1-45.7 meters

SOURCE OF DATA:

COMMENTS: Oyster Creek, Ground Release, 1995-1999 met data

PROGRAM: PAVAN, 10/76, 8/79 REVISION, IMPLEMENTATION OF REGULATORY GUIDE 1.145

SITE EXCLUSION BOUNDARY CALCULATIONS:

SW SECTOR BOUNDARY DISTANCE = 414.0 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= 1913. D= 44.8

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.

2.500E-03	2.076E-03	1.629E-03	1.384E-03	1.353E-03	1.038E-03	9.441E-04	9.020E-04	8.303E-04	7.839E-04
0.115	0.307	0.401	0.641	0.689	1.073	1.233	1.569	1.905	2.001
0.00566	0.01514	0.01982	0.03166	0.03403	0.05298	0.06092	0.07750	0.09408	0.09882
7.140E-04	6.920E-04	6.765E-04	6.657E-04	5.928E-04	5.412E-04	5.226E-04	5.201E-04	5.195E-04	4.510E-04
2.109	2.157	2.589	2.973	3.021	3.356	4.268	4.603	4.843	4.987
0.10418	0.10655	0.12787	0.14682	0.14919	0.16577	0.21078	0.22736	0.23921	0.24631
4.159E-04	3.952E-04	3.920E-04	3.465E-04	3.390E-04	3.136E-04	3.011E-04	2.964E-04	2.616E-04	2.613E-04
5.371	5.850	6.714	6.761	7.433	9.064	9.351	10.359	10.406	12.133
0.26526	0.28895	0.33159	0.33396	0.36712	0.44766	0.46187	0.51162	0.51399	0.59927
2.371E-04	2.257E-04	1.976E-04	1.964E-04	1.962E-04	1.851E-04	1.807E-04	1.570E-04	1.505E-04	1.485E-04
13.188	13.380	15.107	18.368	18.512	25.178	25.274	25.322	25.370	29.543
0.65138	0.66086	0.74613	0.90721	0.91432	1.24359	1.24832	1.25069	1.25306	1.45915
1.388E-04	1.308E-04	1.263E-04	1.129E-04	1.111E-04	1.070E-04	9.862E-05	9.831E-05	9.472E-05	9.255E-05
34.435	34.531	46.617	46.713	49.734	49.782	49.785	50.265	61.104	62.975
1.70077	1.70551	2.30245	2.30719	2.45643	2.45880	2.45896	2.48265	3.01800	3.11039
9.031E-05	8.556E-05	7.583E-05	7.130E-05	6.939E-05	6.549E-05	6.317E-05	5.552E-05	5.360E-05	4.910E-05
63.022	63.166	69.785	70.025	72.183	73.190	76.835	77.363	77.698	78.801
3.11276	3.11986	3.44676	3.45861	3.56520	3.61495	3.79498	3.82104	3.83762	3.89210
4.736E-05	4.094E-05	3.931E-05	3.790E-05	3.570E-05	3.275E-05	3.275E-05	2.730E-05	2.677E-05	2.143E-05
81.247	81.295	81.487	82.015	83.693	83.789	83.981	84.077	85.516	86.187
4.01291	4.01528	4.02475	4.05081	4.13372	4.13846	4.14793	4.15267	4.22374	4.25690
2.052E-05	1.785E-05	1.367E-05	1.338E-05	1.025E-05	8.203E-06	6.834E-06	5.124E-06		
86.811	87.195	89.305	89.401	94.053	97.890	99.377	100.000		
4.28769	4.30665	4.41087	4.41561	4.64539	4.83489	4.90833	4.93912		

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)= 0.094  
HANDCHECK GRAPH: SLOPE LT -1.0 FOR LOW PERCENTAGES. XSAVE ( 4)= 0.147  
HANDCHECK GRAPH: SLOPE LT -1.0 FOR LOW PERCENTAGES. XSAVE ( 5)= 0.239  
HANDCHECK GRAPH: SLOPE LT -1.0 FOR LOW PERCENTAGES. XSAVE ( 6)= 0.511  
HANDCHECK GRAPH: SLOPE LT -1.0 FOR LOW PERCENTAGES. XSAVE ( 7)= 1.242  
HANDCHECK GRAPH: SLOPE LT -1.0 FOR LOW PERCENTAGES. XSAVE ( 8)= 2.300  
HANDCHECK GRAPH: SLOPE LT -1.0 FOR LOW PERCENTAGES. XSAVE ( 9)= 3.107

K	I	XQSAVE(K, I)	XQINT(K, I)	XQSLOP(K, I)
3	1	-5.99148	-8.89364	-0.75179
3	2	-6.17738	-12.74003	-1.81637
3	3	-7.09367	-12.22220	-1.64979
3	4	-7.31468	-12.13419	-1.62020
3	5	-7.56266	-13.81253	-2.21503
3	6	-8.12372	-11.85112	-1.45132
3	7	-8.59460	-12.04351	-1.53706
3	8	-8.97649	-13.74854	-2.39155
3	9	-9.28775	NUMXQ(K)= 9	
		1.163E-03	0.049	1.000
		6.627E-04	0.148	3.000
		5.078E-04	0.247	5.000
		3.045E-04	0.494	10.000
		2.451E-04	0.741	15.000
		2.102E-04	0.988	20.000
		1.858E-04	1.235	25.000
		1.666E-04	1.482	30.000
		1.516E-04	1.729	35.000
		1.394E-04	1.976	40.000
		1.293E-04	2.223	45.000
		1.177E-04	2.470	50.000
		1.067E-04	2.717	55.000
		9.741E-05	2.963	60.000
		3.017E-04	0.5	10.12

ANNUAL AVERAGE = 5.13E-06

K= 3 FIVEXQ(K)= 3.017E-04 FIVEPR(K)=10.123

USNRC COMPUTER CODE-PAVAN, VERSION 2.0

RUN DATE: 03/07/07

PLANT NAME: Oyster Creek

METEOROLOGICAL INSTRUMENTATION

DATA PERIOD:

WIND SENSORS HEIGHT: Ground

TYPE OF RELEASE: Ground Release

DELTA-T HEIGHTS: 10.1-45.7 meters

SOURCE OF DATA:

COMMENTS: Oyster Creek, Ground Release, 1995-1999 met data

PROGRAM: PAVAN, 10/76, 8/79 REVISION, IMPLEMENTATION OF REGULATORY GUIDE 1.145

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

CLASS	METER/SEC AT 10.0 METERS	PERCENT	DISTANCE METERS	TERRAIN METERS	HT METERS	EFF METERS	PLUME METERS	SIGMA-Y METERS	SIGMA-Z METERS	MEANDER-SY METERS	** CHI/Q VALUES (SEC/CUBIC METER)		
											MEANDER	BLDG WAKE	USED
											CA= 957.SQ.METERS		
A	0.4	0.00	414.	0.	0.	84.5	88.5	84.5	1.026E-04	9.862E-05	9.862E-05		
A	1.0	0.10	414.	0.	0.	84.5	88.5	84.5	4.261E-05	4.094E-05	4.094E-05		
A	1.5	0.58	414.	0.	0.	84.5	88.5	84.5	2.841E-05	2.730E-05	2.730E-05		
A	2.0	2.20	414.	0.	0.	84.5	88.5	84.5	2.135E-05	2.052E-05	2.052E-05		
A	3.0	3.30	414.	0.	0.	84.5	88.5	84.5	1.422E-05	1.367E-05	1.367E-05		
A	4.0	9.86	414.	0.	0.	84.5	88.5	84.5	1.066E-05	1.025E-05	1.025E-05		
A	5.0	8.34	414.	0.	0.	84.5	88.5	84.5	8.537E-06	8.203E-06	8.203E-06		
A	6.0	3.09	414.	0.	0.	84.5	88.5	84.5	7.112E-06	6.834E-06	6.834E-06		
A	8.0	0.68	414.	0.	0.	84.5	88.5	84.5	5.332E-06	5.124E-06	5.124E-06		
B	0.7	0.05	414.	0.	0.	63.5	42.1	63.5	1.588E-04	1.426E-04	1.426E-04		
B	1.0	0.10	414.	0.	0.	63.5	42.1	63.5	1.191E-04	1.070E-04	1.070E-04		
B	1.2	0.10	414.	0.	0.	63.5	42.1	63.5	9.530E-05	8.556E-05	8.556E-05		
B	1.5	0.16	414.	0.	0.	63.5	42.1	63.5	7.942E-05	7.130E-05	7.130E-05		
B	2.0	0.58	414.	0.	0.	63.5	42.1	63.5	5.969E-05	5.360E-05	5.360E-05		
B	3.0	2.20	414.	0.	0.	63.5	42.1	63.5	3.977E-05	3.570E-05	3.570E-05		
B	4.0	2.20	414.	0.	0.	63.5	42.1	63.5	2.981E-05	2.677E-05	2.677E-05		
B	5.0	0.94	414.	0.	0.	63.5	42.1	63.5	2.387E-05	2.143E-05	2.143E-05		
B	6.0	0.31	414.	0.	0.	63.5	42.1	63.5	1.988E-05	1.785E-05	1.785E-05		
C	1.2	0.10	414.	0.	0.	48.2	27.4	48.2	1.932E-04	1.570E-04	1.570E-04		
C	1.5	0.10	414.	0.	0.	48.2	27.4	48.2	1.610E-04	1.308E-04	1.308E-04		
C	2.0	0.31	414.	0.	0.	48.2	27.4	48.2	1.210E-04	9.831E-05	9.831E-05		
C	3.0	0.73	414.	0.	0.	48.2	27.4	48.2	8.060E-05	6.549E-05	6.549E-05		
C	4.0	1.15	414.	0.	0.	48.2	27.4	48.2	6.043E-05	4.910E-05	4.910E-05		
C	5.0	0.58	414.	0.	0.	48.2	27.4	48.2	4.838E-05	3.931E-05	3.931E-05		
C	6.0	0.16	414.	0.	0.	48.2	27.4	48.2	4.030E-05	3.275E-05	3.275E-05		
D	0.4	0.08	414.	0.	0.	34.0	15.8	67.9	7.140E-04	9.116E-04	7.140E-04		
D	0.5	0.16	414.	0.	0.	34.0	15.8	67.9	5.928E-04	7.569E-04	5.928E-04		
D	0.7	0.16	414.	0.	0.	34.0	15.8	67.9	3.952E-04	5.046E-04	3.952E-04		
D	1.0	0.58	414.	0.	0.	34.0	15.8	67.9	2.964E-04	3.785E-04	2.964E-04		
D	1.2	1.05	414.	0.	0.	34.0	15.8	67.9	2.371E-04	3.028E-04	2.371E-04		
D	1.5	2.10	414.	0.	0.	34.0	15.8	67.9	1.976E-04	2.523E-04	1.976E-04		
D	2.0	3.99	414.	0.	0.	34.0	15.8	67.9	1.485E-04	1.897E-04	1.485E-04		
D	3.0	7.50	414.	0.	0.	34.0	15.8	52.7	1.276E-04	1.263E-04	1.263E-04		
D	4.0	7.87	414.	0.	0.	34.0	15.8	43.9	1.147E-04	9.472E-05	9.472E-05		
D	5.0	6.98	414.	0.	0.	34.0	15.8	38.2	1.057E-04	7.583E-05	7.583E-05		
D	6.0	4.51	414.	0.	0.	34.0	15.8	34.0	9.879E-05	6.317E-05	6.317E-05		
D	8.0	2.15	414.	0.	0.	34.0	15.8	34.0	7.419E-05	4.736E-05	4.736E-05		
D	10.0	0.37	414.	0.	0.	34.0	15.8	34.0	5.936E-05	3.790E-05	3.790E-05		
E	0.4	0.12	414.	0.	0.	24.2	11.2	72.5	9.441E-04	1.336E-03	9.441E-04		

E	0.5	0.05	414.	0.	0.	24.2	11.2	72.5	7.839E-04	1.109E-03	7.839E-04
E	0.7	0.31	414.	0.	0.	24.2	11.2	72.5	5.226E-04	7.393E-04	5.226E-04
E	1.0	1.05	414.	0.	0.	24.2	11.2	72.5	3.920E-04	5.545E-04	3.920E-04
E	1.2	1.21	414.	0.	0.	24.2	11.2	72.5	3.136E-04	4.436E-04	3.136E-04
E	1.5	1.57	414.	0.	0.	24.2	11.2	72.5	2.613E-04	3.697E-04	2.613E-04
E	2.0	3.25	414.	0.	0.	24.2	11.2	72.5	1.964E-04	2.779E-04	1.964E-04
E	3.0	5.30	414.	0.	0.	24.2	11.2	48.6	1.953E-04	1.851E-04	1.851E-04
E	4.0	2.99	414.	0.	0.	24.2	11.2	36.4	1.953E-04	1.388E-04	1.388E-04
E	5.0	2.15	414.	0.	0.	24.2	11.2	29.1	1.953E-04	1.111E-04	1.111E-04
E	6.0	1.10	414.	0.	0.	24.2	11.2	24.3	1.953E-04	9.255E-05	9.255E-05
E	8.0	1.36	414.	0.	0.	24.2	11.2	24.2	1.471E-04	6.939E-05	6.939E-05
E	10.0	0.47	414.	0.	0.	24.2	11.2	24.2	1.177E-04	5.552E-05	5.552E-05
E	24.5	0.10	414.	0.	0.	24.2	11.2	24.2	4.789E-05	2.258E-05	2.258E-05
F	0.4	0.06	414.	0.	0.	16.7	7.1	66.7	1.629E-03	2.172E-03	1.629E-03
F	0.7	0.31	414.	0.	0.	16.7	7.1	66.7	9.020E-04	1.203E-03	9.020E-04
F	1.0	0.26	414.	0.	0.	16.7	7.1	66.7	6.765E-04	9.019E-04	6.765E-04
F	1.2	0.16	414.	0.	0.	16.7	7.1	66.7	5.412E-04	7.215E-04	5.412E-04
F	1.5	0.31	414.	0.	0.	16.7	7.1	66.7	4.510E-04	6.013E-04	4.510E-04
F	2.0	0.47	414.	0.	0.	16.7	7.1	66.7	3.390E-04	4.520E-04	3.390E-04
F	3.0	0.31	414.	0.	0.	16.7	7.1	40.2	3.743E-04	3.011E-04	3.011E-04
F	4.0	0.10	414.	0.	0.	16.7	7.1	28.0	4.036E-04	2.257E-04	2.257E-04
F	10.0	0.10	414.	0.	0.	16.7	7.1	16.7	2.710E-04	9.031E-05	9.031E-05
G	0.4	0.07	414.	0.	0.	11.5	4.5	69.0	2.500E-03	4.999E-03	2.500E-03
G	0.5	0.10	414.	0.	0.	11.5	4.5	69.0	2.076E-03	4.151E-03	2.076E-03
G	0.7	0.26	414.	0.	0.	11.5	4.5	69.0	1.384E-03	2.768E-03	1.384E-03
G	1.0	0.26	414.	0.	0.	11.5	4.5	69.0	1.038E-03	2.076E-03	1.038E-03
G	1.2	0.05	414.	0.	0.	11.5	4.5	69.0	8.303E-04	1.661E-03	8.303E-04
G	1.5	0.26	414.	0.	0.	11.5	4.5	69.0	6.920E-04	1.384E-03	6.920E-04
G	2.0	0.26	414.	0.	0.	11.5	4.5	69.0	5.201E-04	1.040E-03	5.201E-04
G	3.0	0.05	414.	0.	0.	11.5	4.5	35.9	6.657E-04	6.929E-04	6.657E-04
G	4.0	0.05	414.	0.	0.	11.5	4.5	22.5	7.984E-04	5.195E-04	5.195E-04

USNRC COMPUTER CODE-PAVAN, VERSION 2.0

RUN DATE: 03/07/07

PLANT NAME: Oyster Creek

METEOROLOGICAL INSTRUMENTATION

DATA PERIOD:

WIND SENSORS HEIGHT: Ground

TYPE OF RELEASE: Ground Release

DELTA-T HEIGHTS: 10.1-45.7 meters

SOURCE OF DATA:

COMMENTS: Oyster Creek, Ground Release, 1995-1999 met data

PROGRAM: PAVAN, 10/76, 8/79 REVISION, IMPLEMENTATION OF REGULATORY GUIDE 1.145

SITE EXCLUSION BOUNDARY CALCULATIONS:

WSW SECTOR BOUNDARY DISTANCE = 414.0 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= 1913. D= 44.8

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.

2.500E-03	2.076E-03	1.629E-03	1.384E-03	1.038E-03	9.441E-04	9.020E-04	8.303E-04	7.839E-04	7.140E-04
0.068	0.173	0.233	0.496	0.758	0.878	1.193	1.245	1.298	1.379
0.00307	0.00781	0.01053	0.02238	0.03422	0.03966	0.05387	0.05624	0.05861	0.06228
6.920E-04	6.765E-04	6.657E-04	5.928E-04	5.412E-04	5.226E-04	5.201E-04	5.195E-04	4.510E-04	3.952E-04
1.642	1.904	1.956	2.114	2.271	2.586	2.848	2.900	3.215	3.373
0.07413	0.08597	0.08834	0.09545	0.10255	0.11677	0.12861	0.13098	0.14519	0.15230
3.920E-04	3.390E-04	3.136E-04	3.011E-04	2.964E-04	2.613E-04	2.371E-04	2.257E-04	1.976E-04	1.964E-04
4.422	4.894	6.100	6.415	6.992	8.566	9.615	9.720	11.818	15.070
0.19968	0.22100	0.27548	0.28969	0.31575	0.38681	0.43419	0.43893	0.53368	0.68055
1.851E-04	1.570E-04	1.485E-04	1.426E-04	1.388E-04	1.308E-04	1.263E-04	1.111E-04	1.070E-04	9.862E-05
20.369	20.473	24.460	24.513	27.503	27.608	35.109	37.260	37.364	37.367
0.91980	0.92454	1.10457	1.10694	1.24196	1.24670	1.58544	1.68256	1.68730	1.68741
9.831E-05	9.472E-05	9.255E-05	9.031E-05	8.556E-05	7.583E-05	7.130E-05	6.939E-05	6.549E-05	6.317E-05
37.682	45.550	46.652	46.757	46.862	53.838	53.996	55.359	56.094	60.605
1.70162	2.05695	2.10669	2.11143	2.11617	2.43122	2.43833	2.49992	2.53308	2.73680
5.552E-05	5.360E-05	4.910E-05	4.736E-05	4.094E-05	3.931E-05	3.790E-05	3.570E-05	3.275E-05	2.730E-05
61.077	61.654	62.808	64.959	65.064	65.641	66.008	68.211	68.369	68.946
2.75812	2.78418	2.83629	2.93341	2.93815	2.96421	2.98079	3.08028	3.08738	3.11344
2.677E-05	2.258E-05	2.143E-05	2.052E-05	1.785E-05	1.367E-05	1.025E-05	8.203E-06	6.834E-06	5.124E-06
71.149	71.254	72.198	74.401	74.716	78.021	87.882	96.223	99.318	100.000
3.21293	3.21767	3.26031	3.35980	3.37401	3.52325	3.96859	4.34523	4.48499	4.51579

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)= 0.022  
 HANDCHECK GRAPH: SLOPE LT -1.0 FOR LOW PERCENTAGES. XSAVE( 4)= 0.054  
 HANDCHECK GRAPH: SLOPE LT -1.0 FOR LOW PERCENTAGES. XSAVE( 5)= 0.088  
 HANDCHECK GRAPH: SLOPE LT -1.0 FOR LOW PERCENTAGES. XSAVE( 6)= 0.131  
 HANDCHECK GRAPH: SLOPE LT -1.0 FOR LOW PERCENTAGES. XSAVE( 7)= 0.386  
 HANDCHECK GRAPH: SLOPE LT -1.0 FOR LOW PERCENTAGES. XSAVE( 8)= 0.919  
 HANDCHECK GRAPH: SLOPE LT -1.0 FOR LOW PERCENTAGES. XSAVE( 9)= 1.584  
 HANDCHECK GRAPH: SLOPE LT -1.0 FOR LOW PERCENTAGES. XSAVE(10)= 2.104

K	I	XQSAVE(K, I)	XQINT(K, I)	XQSLOP(K, I)
4	1	-5.99148	-9.28306	-0.82134
4	2	-6.17738	-11.83978	-1.49750
4	3	-6.58285	-12.82401	-1.77787
4	4	-7.01087	-13.97760	-2.13068
4	5	-7.31468	-13.90561	-2.10765
4	6	-7.56266	-13.54436	-1.98761
4	7	-8.24983	-11.25335	-1.12755
4	8	-8.59460	-12.89330	-1.82304
4	9	-8.97649	-14.74790	-2.68624
4	10	-9.28775	NUMXQ(K)= 10	
		9.851E-04	0.045	1.000
		5.090E-04	0.135	3.000
		3.709E-04	0.226	5.000
		2.463E-04	0.452	10.000
		2.099E-04	0.677	15.000
		1.865E-04	0.903	20.000
		1.608E-04	1.129	25.000
		1.415E-04	1.355	30.000
		1.266E-04	1.581	35.000
		1.097E-04	1.806	40.000
		9.635E-05	2.032	45.000
		2.367E-04	0.5	11.07

ANNUAL AVERAGE = 3.76E-06

K= 4 FIVEXQ(K)= 2.367E-04 FIVEPR(K)=11.072

USNRC COMPUTER CODE-PAVAN, VERSION 2.0

RUN DATE: 03/07/07

PLANT NAME: Oyster Creek

METEOROLOGICAL INSTRUMENTATION

DATA PERIOD:

WIND SENSORS HEIGHT: Ground

TYPE OF RELEASE: Ground Release

DELTA-T HEIGHTS: 10.1-45.7 meters

SOURCE OF DATA:

COMMENTS: Oyster Creek, Ground Release, 1995-1999 met data

PROGRAM: PAVAN, 10/76, 8/79 REVISION, IMPLEMENTATION OF REGULATORY GUIDE 1.145

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

CLASS	METER/SEC AT 10.0 METERS	PERCENT	DISTANCE METERS	TERRAIN METERS	HT EFF METERS	PLUME HT METERS	SIGMA-Y METERS	SIGMA-Z METERS	MEANDER-SY METERS	** CHI/Q VALUES (SEC/CUBIC METER)		
										MEANDER	BLDG WAKE	USED
										CA= 957.SQ.METERS		
A	0.4	0.00	414.	0.	0.	84.5	88.5	84.5	1.026E-04	9.862E-05	9.862E-05	
A	1.0	0.06	414.	0.	0.	84.5	88.5	84.5	4.261E-05	4.094E-05	4.094E-05	
A	1.2	0.13	414.	0.	0.	84.5	88.5	84.5	3.409E-05	3.275E-05	3.275E-05	
A	1.5	0.76	414.	0.	0.	84.5	88.5	84.5	2.841E-05	2.730E-05	2.730E-05	
A	2.0	2.41	414.	0.	0.	84.5	88.5	84.5	2.135E-05	2.052E-05	2.052E-05	
A	3.0	6.08	414.	0.	0.	84.5	88.5	84.5	1.422E-05	1.367E-05	1.367E-05	
A	4.0	10.51	414.	0.	0.	84.5	88.5	84.5	1.066E-05	1.025E-05	1.025E-05	
A	5.0	5.83	414.	0.	0.	84.5	88.5	84.5	8.537E-06	8.203E-06	8.203E-06	
A	6.0	1.52	414.	0.	0.	84.5	88.5	84.5	7.112E-06	6.834E-06	6.834E-06	
A	8.0	0.25	414.	0.	0.	84.5	88.5	84.5	5.332E-06	5.124E-06	5.124E-06	
B	1.0	0.06	414.	0.	0.	63.5	42.1	63.5	1.191E-04	1.070E-04	1.070E-04	
B	1.2	0.13	414.	0.	0.	63.5	42.1	63.5	9.530E-05	8.556E-05	8.556E-05	
B	1.5	0.44	414.	0.	0.	63.5	42.1	63.5	7.942E-05	7.130E-05	7.130E-05	
B	2.0	1.14	414.	0.	0.	63.5	42.1	63.5	5.969E-05	5.360E-05	5.360E-05	
B	3.0	2.72	414.	0.	0.	63.5	42.1	63.5	3.977E-05	3.570E-05	3.570E-05	
B	4.0	1.90	414.	0.	0.	63.5	42.1	63.5	2.981E-05	2.677E-05	2.677E-05	
B	5.0	0.44	414.	0.	0.	63.5	42.1	63.5	2.387E-05	2.143E-05	2.143E-05	
B	6.0	0.57	414.	0.	0.	63.5	42.1	63.5	1.988E-05	1.785E-05	1.785E-05	
B	8.0	0.13	414.	0.	0.	63.5	42.1	63.5	1.491E-05	1.338E-05	1.338E-05	
C	0.7	0.06	414.	0.	0.	48.2	27.4	48.2	3.219E-04	2.616E-04	2.616E-04	
C	1.0	0.06	414.	0.	0.	48.2	27.4	48.2	2.414E-04	1.962E-04	1.962E-04	
C	1.5	0.13	414.	0.	0.	48.2	27.4	48.2	1.610E-04	1.308E-04	1.308E-04	
C	2.0	0.44	414.	0.	0.	48.2	27.4	48.2	1.210E-04	9.831E-05	9.831E-05	
C	3.0	1.39	414.	0.	0.	48.2	27.4	48.2	8.060E-05	6.549E-05	6.549E-05	
C	4.0	0.63	414.	0.	0.	48.2	27.4	48.2	6.043E-05	4.910E-05	4.910E-05	
C	5.0	0.19	414.	0.	0.	48.2	27.4	48.2	4.838E-05	3.931E-05	3.931E-05	
C	6.0	0.38	414.	0.	0.	48.2	27.4	48.2	4.030E-05	3.275E-05	3.275E-05	
C	8.0	0.06	414.	0.	0.	48.2	27.4	48.2	3.021E-05	2.455E-05	2.455E-05	
D	0.4	0.08	414.	0.	0.	34.0	15.8	67.9	7.140E-04	9.116E-04	7.140E-04	
D	0.7	0.25	414.	0.	0.	34.0	15.8	67.9	3.952E-04	5.046E-04	3.952E-04	
D	1.0	0.70	414.	0.	0.	34.0	15.8	67.9	2.964E-04	3.785E-04	2.964E-04	
D	1.2	1.01	414.	0.	0.	34.0	15.8	67.9	2.371E-04	3.028E-04	2.371E-04	
D	1.5	1.39	414.	0.	0.	34.0	15.8	67.9	1.976E-04	2.523E-04	1.976E-04	
D	2.0	4.12	414.	0.	0.	34.0	15.8	67.9	1.485E-04	1.897E-04	1.485E-04	
D	3.0	8.42	414.	0.	0.	34.0	15.8	52.7	1.276E-04	1.263E-04	1.263E-04	
D	4.0	5.89	414.	0.	0.	34.0	15.8	43.9	1.147E-04	9.472E-05	9.472E-05	
D	5.0	6.02	414.	0.	0.	34.0	15.8	38.2	1.057E-04	7.583E-05	7.583E-05	
D	6.0	3.04	414.	0.	0.	34.0	15.8	34.0	9.879E-05	6.317E-05	6.317E-05	
D	8.0	1.52	414.	0.	0.	34.0	15.8	34.0	7.419E-05	4.736E-05	4.736E-05	
D	10.0	0.63	414.	0.	0.	34.0	15.8	34.0	5.936E-05	3.790E-05	3.790E-05	



E	0.4	0.15	414.	0.	0.	24.2	11.2	72.5	9.441E-04	1.336E-03	9.441E-04
E	0.5	0.19	414.	0.	0.	24.2	11.2	72.5	7.839E-04	1.109E-03	7.839E-04
E	0.7	0.38	414.	0.	0.	24.2	11.2	72.5	5.226E-04	7.393E-04	5.226E-04
E	1.0	1.14	414.	0.	0.	24.2	11.2	72.5	3.920E-04	5.545E-04	3.920E-04
E	1.2	1.58	414.	0.	0.	24.2	11.2	72.5	3.136E-04	4.436E-04	3.136E-04
E	1.5	2.15	414.	0.	0.	24.2	11.2	72.5	2.613E-04	3.697E-04	2.613E-04
E	2.0	3.42	414.	0.	0.	24.2	11.2	72.5	1.964E-04	2.779E-04	1.964E-04
E	3.0	5.83	414.	0.	0.	24.2	11.2	48.6	1.953E-04	1.851E-04	1.851E-04
E	4.0	4.43	414.	0.	0.	24.2	11.2	36.4	1.953E-04	1.388E-04	1.388E-04
E	5.0	3.04	414.	0.	0.	24.2	11.2	29.1	1.953E-04	1.111E-04	1.111E-04
E	6.0	1.01	414.	0.	0.	24.2	11.2	24.3	1.953E-04	9.255E-05	9.255E-05
E	8.0	0.38	414.	0.	0.	24.2	11.2	24.2	1.471E-04	6.939E-05	6.939E-05
E	10.0	0.19	414.	0.	0.	24.2	11.2	24.2	1.177E-04	5.552E-05	5.552E-05
E	24.5	0.13	414.	0.	0.	24.2	11.2	24.2	4.789E-05	2.258E-05	2.258E-05
F	0.4	0.10	414.	0.	0.	16.7	7.1	66.7	1.629E-03	2.172E-03	1.629E-03
F	0.7	0.51	414.	0.	0.	16.7	7.1	66.7	9.020E-04	1.203E-03	9.020E-04
F	1.0	0.57	414.	0.	0.	16.7	7.1	66.7	6.765E-04	9.019E-04	6.765E-04
F	1.2	0.13	414.	0.	0.	16.7	7.1	66.7	5.412E-04	7.215E-04	5.412E-04
F	1.5	0.38	414.	0.	0.	16.7	7.1	66.7	4.510E-04	6.013E-04	4.510E-04
F	2.0	0.51	414.	0.	0.	16.7	7.1	66.7	3.390E-04	4.520E-04	3.390E-04
F	3.0	0.25	414.	0.	0.	16.7	7.1	40.2	3.743E-04	3.011E-04	3.011E-04
F	4.0	0.06	414.	0.	0.	16.7	7.1	28.0	4.036E-04	2.257E-04	2.257E-04
F	5.0	0.06	414.	0.	0.	16.7	7.1	21.1	4.278E-04	1.807E-04	1.807E-04
G	0.4	0.11	414.	0.	0.	11.5	4.5	69.0	2.500E-03	4.999E-03	2.500E-03
G	0.5	0.13	414.	0.	0.	11.5	4.5	69.0	2.076E-03	4.151E-03	2.076E-03
G	0.7	0.51	414.	0.	0.	11.5	4.5	69.0	1.384E-03	2.768E-03	1.384E-03
G	1.0	0.32	414.	0.	0.	11.5	4.5	69.0	1.038E-03	2.076E-03	1.038E-03
G	1.2	0.13	414.	0.	0.	11.5	4.5	69.0	8.303E-04	1.661E-03	8.303E-04
G	1.5	0.19	414.	0.	0.	11.5	4.5	69.0	6.920E-04	1.384E-03	6.920E-04
G	2.0	0.38	414.	0.	0.	11.5	4.5	69.0	5.201E-04	1.040E-03	5.201E-04
G	3.0	0.06	414.	0.	0.	11.5	4.5	35.9	6.657E-04	6.929E-04	6.657E-04
G	4.0	0.06	414.	0.	0.	11.5	4.5	22.5	7.984E-04	5.195E-04	5.195E-04

USNRC COMPUTER CODE-PAVAN, VERSION 2.0

RUN DATE: 03/07/07

PLANT NAME: Oyster Creek

METEOROLOGICAL INSTRUMENTATION

DATA PERIOD:

WIND SENSORS HEIGHT: Ground

TYPE OF RELEASE: Ground Release

DELTA-T HEIGHTS: 10.1-45.7 meters

SOURCE OF DATA:

COMMENTS: Oyster Creek, Ground Release, 1995-1999 met data

PROGRAM: PAVAN, 10/76, 8/79 REVISION, IMPLEMENTATION OF REGULATORY GUIDE 1.145

SITE EXCLUSION BOUNDARY CALCULATIONS:

W SECTOR BOUNDARY DISTANCE = 414.0 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= 1913. D= 44.8

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.

2.500E-03	2.076E-03	1.629E-03	1.384E-03	1.038E-03	9.441E-04	9.020E-04	8.303E-04	7.839E-04	7.140E-04
0.107	0.234	0.333	0.840	1.156	1.307	1.814	1.941	2.131	2.213
0.00401	0.00875	0.01245	0.03140	0.04325	0.04890	0.06785	0.07259	0.07970	0.08277
6.920E-04	6.765E-04	6.657E-04	5.412E-04	5.226E-04	5.201E-04	5.195E-04	4.510E-04	3.952E-04	3.920E-04
2.403	2.973	3.036	3.163	3.543	3.923	3.986	4.366	4.620	5.760
0.08988	0.11120	0.11357	0.11831	0.13252	0.14673	0.14910	0.16332	0.17279	0.21543
3.390E-04	3.136E-04	3.011E-04	2.964E-04	2.616E-04	2.613E-04	2.371E-04	2.257E-04	1.976E-04	1.964E-04
6.266	7.849	8.103	8.799	8.863	11.016	12.029	12.093	13.486	16.906
0.23438	0.29360	0.30308	0.32913	0.33150	0.41204	0.44994	0.45231	0.50443	0.63234
1.962E-04	1.851E-04	1.807E-04	1.485E-04	1.388E-04	1.308E-04	1.263E-04	1.111E-04	1.070E-04	9.862E-05
16.969	22.795	22.859	26.975	31.408	31.535	39.958	42.998	43.061	43.066
0.63471	0.85264	0.85501	1.00899	1.17480	1.17954	1.49460	1.60830	1.61067	1.61083
9.831E-05	9.472E-05	9.255E-05	8.556E-05	7.583E-05	7.130E-05	6.939E-05	6.549E-05	6.317E-05	5.552E-05
43.509	49.399	50.412	50.539	56.555	56.998	57.378	58.772	61.812	62.002
1.62741	1.84772	1.88562	1.89035	2.11539	2.13197	2.14619	2.19830	2.31201	2.31911
5.360E-05	4.910E-05	4.736E-05	4.094E-05	3.931E-05	3.790E-05	3.570E-05	3.275E-05	3.275E-05	2.730E-05
63.142	63.775	65.295	65.358	65.548	66.181	68.905	69.031	69.411	70.171
2.36175	2.38544	2.44229	2.44466	2.45177	2.47546	2.57731	2.58205	2.59627	2.62469
2.677E-05	2.455E-05	2.258E-05	2.143E-05	2.052E-05	1.785E-05	1.367E-05	1.338E-05	1.025E-05	8.203E-06
72.071	72.134	72.261	72.704	75.111	75.681	81.761	81.887	92.400	98.227
2.69576	2.69812	2.70286	2.71944	2.80946	2.83078	3.05819	3.06292	3.45615	3.67408
6.834E-06	5.124E-06								
99.747	100.000								
3.73093	3.74041								

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)= 0.031  
 HANDCHECK GRAPH: SLOPE LT -1.0 FOR LOW PERCENTAGES. XSAVE( 4)= 0.111  
 HANDCHECK GRAPH: SLOPE LT -1.0 FOR LOW PERCENTAGES. XSAVE( 5)= 0.113  
 HANDCHECK GRAPH: SLOPE LT -1.0 FOR LOW PERCENTAGES. XSAVE( 6)= 0.293  
 HANDCHECK GRAPH: SLOPE LT -1.0 FOR LOW PERCENTAGES. XSAVE( 7)= 0.329  
 HANDCHECK GRAPH: SLOPE LT -1.0 FOR LOW PERCENTAGES. XSAVE( 8)= 0.852  
 HANDCHECK GRAPH: SLOPE LT -1.0 FOR LOW PERCENTAGES. XSAVE( 9)= 1.493  
 HANDCHECK GRAPH: SLOPE LT -1.0 FOR LOW PERCENTAGES. XSAVE(10)= 1.884

K	I	XQSAVE(K,I)	XQINT(K,I)	XQSLOP(K,I)
5	1	-5.99148	-9.82949	-0.97318
5	2	-6.17738	-10.74186	-1.21631
5	3	-6.58285	-13.37101	-1.98520
5	4	-7.29856	-15.10237	-2.55122
5	5	-7.31468	-15.04374	-2.53201
5	6	-8.06751	-12.18832	-1.49564
5	7	-8.12372	-11.98247	-1.41989
5	8	-8.59460	-12.85177	-1.78423
5	9	-8.97649	-16.20271	-3.32705
5	10	-9.28775	NUMXQ(K)= 10	
		1.258E-03	0.037	1.000
		6.718E-04	0.112	3.000
		4.520E-04	0.187	5.000
		2.790E-04	0.374	10.000
		2.291E-04	0.561	15.000
		1.981E-04	0.748	20.000
		1.742E-04	0.935	25.000
		1.541E-04	1.122	30.000
		1.386E-04	1.309	35.000
		1.262E-04	1.496	40.000
		1.079E-04	1.683	45.000
		9.359E-05	1.870	50.000
		2.425E-04	0.5	13.37

ANNUAL AVERAGE = 3.58E-06

K= 5 FIVEXQ(K)= 2.425E-04 FIVEPR(K)=13.368

USNRC COMPUTER CODE-PAVAN, VERSION 2.0

RUN DATE: 03/07/07

PLANT NAME: Oyster Creek

METEOROLOGICAL INSTRUMENTATION

DATA PERIOD:

WIND SENSORS HEIGHT: Ground

TYPE OF RELEASE: Ground Release

DELTA-T HEIGHTS: 10.1-45.7 meters

SOURCE OF DATA:

COMMENTS: Oyster Creek, Ground Release, 1995-1999 met data

PROGRAM: PAVAN, 10/76, 8/79 REVISION, IMPLEMENTATION OF REGULATORY GUIDE 1.145

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

CLASS	METER/SEC AT 10.0 METERS	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	USED
CA= 957.SQ.METERS											
A	0.4	0.01	414.	0.	0.	84.5	88.5	84.5	1.026E-04	9.862E-05	9.862E-05
A	1.2	0.27	414.	0.	0.	84.5	88.5	84.5	3.409E-05	3.275E-05	3.275E-05
A	1.5	0.35	414.	0.	0.	84.5	88.5	84.5	2.841E-05	2.730E-05	2.730E-05
A	2.0	2.13	414.	0.	0.	84.5	88.5	84.5	2.135E-05	2.052E-05	2.052E-05
A	3.0	9.76	414.	0.	0.	84.5	88.5	84.5	1.422E-05	1.367E-05	1.367E-05
A	4.0	16.15	414.	0.	0.	84.5	88.5	84.5	1.066E-05	1.025E-05	1.025E-05
A	5.0	5.15	414.	0.	0.	84.5	88.5	84.5	8.537E-06	8.203E-06	8.203E-06
A	6.0	0.62	414.	0.	0.	84.5	88.5	84.5	7.112E-06	6.834E-06	6.834E-06
B	1.5	0.27	414.	0.	0.	63.5	42.1	63.5	7.942E-05	7.130E-05	7.130E-05
B	2.0	0.89	414.	0.	0.	63.5	42.1	63.5	5.969E-05	5.360E-05	5.360E-05
B	3.0	2.57	414.	0.	0.	63.5	42.1	63.5	3.977E-05	3.570E-05	3.570E-05
B	4.0	3.11	414.	0.	0.	63.5	42.1	63.5	2.981E-05	2.677E-05	2.677E-05
B	5.0	0.44	414.	0.	0.	63.5	42.1	63.5	2.387E-05	2.143E-05	2.143E-05
B	6.0	0.71	414.	0.	0.	63.5	42.1	63.5	1.988E-05	1.785E-05	1.785E-05
C	1.2	0.27	414.	0.	0.	48.2	27.4	48.2	1.932E-04	1.570E-04	1.570E-04
C	1.5	0.35	414.	0.	0.	48.2	27.4	48.2	1.610E-04	1.308E-04	1.308E-04
C	2.0	0.44	414.	0.	0.	48.2	27.4	48.2	1.210E-04	9.831E-05	9.831E-05
C	3.0	1.60	414.	0.	0.	48.2	27.4	48.2	8.060E-05	6.549E-05	6.549E-05
C	4.0	0.89	414.	0.	0.	48.2	27.4	48.2	6.043E-05	4.910E-05	4.910E-05
C	5.0	0.18	414.	0.	0.	48.2	27.4	48.2	4.838E-05	3.931E-05	3.931E-05
C	6.0	0.09	414.	0.	0.	48.2	27.4	48.2	4.030E-05	3.275E-05	3.275E-05
D	0.4	0.09	414.	0.	0.	34.0	15.8	67.9	7.140E-04	9.116E-04	7.140E-04
D	0.5	0.18	414.	0.	0.	34.0	15.8	67.9	5.928E-04	7.569E-04	5.928E-04
D	0.7	0.18	414.	0.	0.	34.0	15.8	67.9	3.952E-04	5.046E-04	3.952E-04
D	1.0	0.89	414.	0.	0.	34.0	15.8	67.9	2.964E-04	3.785E-04	2.964E-04
D	1.2	0.98	414.	0.	0.	34.0	15.8	67.9	2.371E-04	3.028E-04	2.371E-04
D	1.5	1.51	414.	0.	0.	34.0	15.8	67.9	1.976E-04	2.523E-04	1.976E-04
D	2.0	3.11	414.	0.	0.	34.0	15.8	67.9	1.485E-04	1.897E-04	1.485E-04
D	3.0	9.23	414.	0.	0.	34.0	15.8	52.7	1.276E-04	1.263E-04	1.263E-04
D	4.0	8.16	414.	0.	0.	34.0	15.8	43.9	1.147E-04	9.472E-05	9.472E-05
D	5.0	4.17	414.	0.	0.	34.0	15.8	38.2	1.057E-04	7.583E-05	7.583E-05
D	6.0	1.69	414.	0.	0.	34.0	15.8	34.0	9.879E-05	6.317E-05	6.317E-05
D	8.0	1.42	414.	0.	0.	34.0	15.8	34.0	7.419E-05	4.736E-05	4.736E-05
D	10.0	0.53	414.	0.	0.	34.0	15.8	34.0	5.936E-05	3.790E-05	3.790E-05
D	24.5	0.18	414.	0.	0.	34.0	15.8	34.0	2.415E-05	1.541E-05	1.541E-05
E	0.4	0.13	414.	0.	0.	24.2	11.2	72.5	9.441E-04	1.336E-03	9.441E-04
E	0.5	0.44	414.	0.	0.	24.2	11.2	72.5	7.839E-04	1.109E-03	7.839E-04
E	0.7	0.71	414.	0.	0.	24.2	11.2	72.5	5.226E-04	7.393E-04	5.226E-04
E	1.0	0.27	414.	0.	0.	24.2	11.2	72.5	3.920E-04	5.545E-04	3.920E-04

E	1.2	1.33	414.	0.	0.	24.2	11.2	72.5	3.136E-04	4.436E-04	3.136E-04
E	1.5	1.33	414.	0.	0.	24.2	11.2	72.5	2.613E-04	3.697E-04	2.613E-04
E	2.0	1.86	414.	0.	0.	24.2	11.2	72.5	1.964E-04	2.779E-04	1.964E-04
E	3.0	3.46	414.	0.	0.	24.2	11.2	48.6	1.953E-04	1.851E-04	1.851E-04
E	4.0	3.90	414.	0.	0.	24.2	11.2	36.4	1.953E-04	1.388E-04	1.388E-04
E	5.0	1.60	414.	0.	0.	24.2	11.2	29.1	1.953E-04	1.111E-04	1.111E-04
E	6.0	0.62	414.	0.	0.	24.2	11.2	24.3	1.953E-04	9.255E-05	9.255E-05
E	8.0	1.15	414.	0.	0.	24.2	11.2	24.2	1.471E-04	6.939E-05	6.939E-05
F	0.4	0.10	414.	0.	0.	16.7	7.1	66.7	1.629E-03	2.172E-03	1.629E-03
F	0.5	0.09	414.	0.	0.	16.7	7.1	66.7	1.353E-03	1.804E-03	1.353E-03
F	0.7	0.44	414.	0.	0.	16.7	7.1	66.7	9.020E-04	1.203E-03	9.020E-04
F	1.0	0.53	414.	0.	0.	16.7	7.1	66.7	6.765E-04	9.019E-04	6.765E-04
F	1.2	0.18	414.	0.	0.	16.7	7.1	66.7	5.412E-04	7.215E-04	5.412E-04
F	1.5	0.35	414.	0.	0.	16.7	7.1	66.7	4.510E-04	6.013E-04	4.510E-04
F	2.0	0.27	414.	0.	0.	16.7	7.1	66.7	3.390E-04	4.520E-04	3.390E-04
F	3.0	0.35	414.	0.	0.	16.7	7.1	40.2	3.743E-04	3.011E-04	3.011E-04
F	4.0	0.09	414.	0.	0.	16.7	7.1	28.0	4.036E-04	2.257E-04	2.257E-04
F	5.0	0.35	414.	0.	0.	16.7	7.1	21.1	4.278E-04	1.807E-04	1.807E-04
F	8.0	0.09	414.	0.	0.	16.7	7.1	16.7	3.386E-04	1.129E-04	1.129E-04
G	0.4	0.13	414.	0.	0.	11.5	4.5	69.0	2.500E-03	4.999E-03	2.500E-03
G	0.5	0.09	414.	0.	0.	11.5	4.5	69.0	2.076E-03	4.151E-03	2.076E-03
G	0.7	0.44	414.	0.	0.	11.5	4.5	69.0	1.384E-03	2.768E-03	1.384E-03
G	1.0	0.53	414.	0.	0.	11.5	4.5	69.0	1.038E-03	2.076E-03	1.038E-03
G	1.2	0.27	414.	0.	0.	11.5	4.5	69.0	8.303E-04	1.661E-03	8.303E-04
G	1.5	0.09	414.	0.	0.	11.5	4.5	69.0	6.920E-04	1.384E-03	6.920E-04
G	3.0	0.18	414.	0.	0.	11.5	4.5	35.9	6.657E-04	6.929E-04	6.657E-04
G	4.0	0.09	414.	0.	0.	11.5	4.5	22.5	7.984E-04	5.195E-04	5.195E-04

USNRC COMPUTER CODE-PAVAN, VERSION 2.0

RUN DATE: 03/07/07

PLANT NAME: Oyster Creek

METEOROLOGICAL INSTRUMENTATION

DATA PERIOD:

WIND SENSORS HEIGHT: Ground

TYPE OF RELEASE: Ground Release

DELTA-T HEIGHTS: 10.1-45.7 meters

SOURCE OF DATA:

COMMENTS: Oyster Creek, Ground Release, 1995-1999 met data

PROGRAM: PAVAN, 10/76, 8/79 REVISION, IMPLEMENTATION OF REGULATORY GUIDE 1.145

SITE EXCLUSION BOUNDARY CALCULATIONS:

WNW SECTOR      BOUNDARY DISTANCE = 414.0 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= 1913.      D= 44.8

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.

2.500E-03	2.076E-03	1.629E-03	1.384E-03	1.353E-03	1.038E-03	9.441E-04	9.020E-04	8.303E-04	7.839E-04
0.133	0.221	0.324	0.767	0.856	1.388	1.514	1.958	2.224	2.668
0.00354	0.00591	0.00864	0.02048	0.02285	0.03706	0.04043	0.05228	0.05938	0.07123
7.140E-04	6.920E-04	6.765E-04	6.657E-04	5.928E-04	5.412E-04	5.226E-04	5.195E-04	4.510E-04	3.952E-04
2.761	2.849	3.382	3.559	3.737	3.914	4.624	4.712	5.067	5.245
0.07371	0.07608	0.09029	0.09503	0.09977	0.10451	0.12346	0.12583	0.13530	0.14004
3.920E-04	3.390E-04	3.136E-04	3.011E-04	2.964E-04	2.613E-04	2.371E-04	2.257E-04	1.976E-04	1.964E-04
5.511	5.777	7.108	7.463	8.350	9.681	10.656	10.745	12.253	14.116
0.14715	0.15425	0.18978	0.19926	0.22295	0.25848	0.28454	0.28691	0.32718	0.37692
1.851E-04	1.807E-04	1.570E-04	1.485E-04	1.388E-04	1.308E-04	1.263E-04	1.129E-04	1.111E-04	9.862E-05
17.576	17.931	18.197	21.302	25.206	25.561	34.787	34.876	36.473	36.479
0.46931	0.47878	0.48589	0.56880	0.67302	0.68250	0.92886	0.93123	0.97387	0.97403
9.831E-05	9.472E-05	9.255E-05	7.583E-05	7.130E-05	6.939E-05	6.549E-05	6.317E-05	5.360E-05	4.910E-05
36.923	45.085	45.706	49.875	50.141	51.295	52.892	54.577	55.464	56.352
0.98588	1.20381	1.22039	1.33172	1.33883	1.36962	1.41226	1.45727	1.48096	1.50465
4.736E-05	3.931E-05	3.790E-05	3.570E-05	3.275E-05	3.275E-05	2.730E-05	2.677E-05	2.143E-05	2.052E-05
57.771	57.948	58.481	61.053	61.320	61.408	61.763	64.868	65.312	67.441
1.54255	1.54729	1.56150	1.63020	1.63730	1.63967	1.64915	1.73206	1.74390	1.80075
1.785E-05	1.541E-05	1.367E-05	1.025E-05	8.203E-06	6.834E-06				
68.151	68.328	78.087	94.233	99.379	100.000				
1.81970	1.82444	2.08501	2.51614	2.65353	2.67011				

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)= 0.023  
 HANDCHECK GRAPH: SLOPE LT -1.0 FOR LOW PERCENTAGES. XSAVE ( 3)= 0.071  
 HANDCHECK GRAPH: SLOPE LT -1.0 FOR LOW PERCENTAGES. XSAVE ( 4)= 0.095  
 HANDCHECK GRAPH: SLOPE LT -1.0 FOR LOW PERCENTAGES. XSAVE ( 5)= 0.126  
 HANDCHECK GRAPH: SLOPE LT -1.0 FOR LOW PERCENTAGES. XSAVE ( 6)= 0.258  
 HANDCHECK GRAPH: SLOPE LT -1.0 FOR LOW PERCENTAGES. XSAVE ( 7)= 0.469  
 HANDCHECK GRAPH: SLOPE LT -1.0 FOR LOW PERCENTAGES. XSAVE ( 8)= 0.928  
 HANDCHECK GRAPH: SLOPE LT -1.0 FOR LOW PERCENTAGES. XSAVE ( 9)= 1.202

K	I	XQSAVE (K, I)	XQINT (K, I)	XQSLOP (K, I)
6	1	-5.99148	-11.19611	-1.30978
6	2	-6.60541	-12.67770	-1.73250
6	3	-7.15122	-13.33899	-1.93981
6	4	-7.31468	-16.48673	-2.95337
6	5	-7.56266	-16.79013	-3.05378
6	6	-8.24983	-13.10560	-1.73629
6	7	-8.59460	-12.66554	-1.56691
6	8	-8.97649	-15.89738	-2.93962
6	9	-9.26455		
			NUMXQ (K)= 9	
		1.259E-03	0.027	1.000
		7.338E-04	0.080	3.000
		4.917E-04	0.134	5.000
		2.566E-04	0.267	10.000
		2.033E-04	0.401	15.000
		1.726E-04	0.534	20.000
		1.526E-04	0.668	25.000
		1.376E-04	0.801	30.000
		1.255E-04	0.935	35.000
		1.083E-04	1.068	40.000
		9.492E-05	1.202	45.000
		1.789E-04	0.5	18.73

ANNUAL AVERAGE = 2.42E-06

K= 6      FIVEXQ (K)= 1.789E-04      FIVEPR (K)=18.726

USNRC COMPUTER CODE-PAVAN, VERSION 2.0

RUN DATE: 03/07/07

PLANT NAME: Oyster Creek

METEOROLOGICAL INSTRUMENTATION

DATA PERIOD:

WIND SENSORS HEIGHT: Ground

TYPE OF RELEASE: Ground Release

DELTA-T HEIGHTS: 10.1-45.7 meters

SOURCE OF DATA:

COMMENTS: Oyster Creek, Ground Release, 1995-1999 met data

PROGRAM: PAVAN, 10/76, 8/79 REVISION, IMPLEMENTATION OF REGULATORY GUIDE 1.145

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

CLASS	METER/SEC AT 10.0 METERS	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	USED
									CA= 957.SQ.METERS		
A	0.4	0.00	414.	0.	0.	84.5	88.5	84.5	1.026E-04	9.862E-05	9.862E-05
A	1.0	0.06	414.	0.	0.	84.5	88.5	84.5	4.261E-05	4.094E-05	4.094E-05
A	1.2	0.06	414.	0.	0.	84.5	88.5	84.5	3.409E-05	3.275E-05	3.275E-05
A	1.5	0.23	414.	0.	0.	84.5	88.5	84.5	2.841E-05	2.730E-05	2.730E-05
A	2.0	1.66	414.	0.	0.	84.5	88.5	84.5	2.135E-05	2.052E-05	2.052E-05
A	3.0	5.26	414.	0.	0.	84.5	88.5	84.5	1.422E-05	1.367E-05	1.367E-05
A	4.0	11.31	414.	0.	0.	84.5	88.5	84.5	1.066E-05	1.025E-05	1.025E-05
A	5.0	10.22	414.	0.	0.	84.5	88.5	84.5	8.537E-06	8.203E-06	8.203E-06
A	6.0	3.03	414.	0.	0.	84.5	88.5	84.5	7.112E-06	6.834E-06	6.834E-06
A	8.0	0.17	414.	0.	0.	84.5	88.5	84.5	5.332E-06	5.124E-06	5.124E-06
B	0.7	0.06	414.	0.	0.	63.5	42.1	63.5	1.588E-04	1.426E-04	1.426E-04
B	1.0	0.06	414.	0.	0.	63.5	42.1	63.5	1.191E-04	1.070E-04	1.070E-04
B	1.2	0.11	414.	0.	0.	63.5	42.1	63.5	9.530E-05	8.556E-05	8.556E-05
B	1.5	0.17	414.	0.	0.	63.5	42.1	63.5	7.942E-05	7.130E-05	7.130E-05
B	2.0	0.51	414.	0.	0.	63.5	42.1	63.5	5.969E-05	5.360E-05	5.360E-05
B	3.0	2.40	414.	0.	0.	63.5	42.1	63.5	3.977E-05	3.570E-05	3.570E-05
B	4.0	2.46	414.	0.	0.	63.5	42.1	63.5	2.981E-05	2.677E-05	2.677E-05
B	5.0	1.09	414.	0.	0.	63.5	42.1	63.5	2.387E-05	2.143E-05	2.143E-05
B	6.0	0.34	414.	0.	0.	63.5	42.1	63.5	1.988E-05	1.785E-05	1.785E-05
B	8.0	0.11	414.	0.	0.	63.5	42.1	63.5	1.491E-05	1.338E-05	1.338E-05
C	1.0	0.06	414.	0.	0.	48.2	27.4	48.2	2.414E-04	1.962E-04	1.962E-04
C	1.5	0.17	414.	0.	0.	48.2	27.4	48.2	1.610E-04	1.308E-04	1.308E-04
C	2.0	0.51	414.	0.	0.	48.2	27.4	48.2	1.210E-04	9.831E-05	9.831E-05
C	3.0	0.80	414.	0.	0.	48.2	27.4	48.2	8.060E-05	6.549E-05	6.549E-05
C	4.0	2.17	414.	0.	0.	48.2	27.4	48.2	6.043E-05	4.910E-05	4.910E-05
C	5.0	0.69	414.	0.	0.	48.2	27.4	48.2	4.838E-05	3.931E-05	3.931E-05
C	6.0	0.06	414.	0.	0.	48.2	27.4	48.2	4.030E-05	3.275E-05	3.275E-05
C	8.0	0.06	414.	0.	0.	48.2	27.4	48.2	3.021E-05	2.455E-05	2.455E-05
D	0.4	0.11	414.	0.	0.	34.0	15.8	67.9	7.140E-04	9.116E-04	7.140E-04
D	0.5	0.06	414.	0.	0.	34.0	15.8	67.9	5.928E-04	7.569E-04	5.928E-04
D	0.7	0.29	414.	0.	0.	34.0	15.8	67.9	3.952E-04	5.046E-04	3.952E-04
D	1.0	0.80	414.	0.	0.	34.0	15.8	67.9	2.964E-04	3.785E-04	2.964E-04
D	1.2	1.60	414.	0.	0.	34.0	15.8	67.9	2.371E-04	3.028E-04	2.371E-04
D	1.5	1.94	414.	0.	0.	34.0	15.8	67.9	1.976E-04	2.523E-04	1.976E-04
D	2.0	4.23	414.	0.	0.	34.0	15.8	67.9	1.485E-04	1.897E-04	1.485E-04
D	3.0	9.77	414.	0.	0.	34.0	15.8	52.7	1.276E-04	1.263E-04	1.263E-04
D	4.0	5.83	414.	0.	0.	34.0	15.8	43.9	1.147E-04	9.472E-05	9.472E-05
D	5.0	2.06	414.	0.	0.	34.0	15.8	38.2	1.057E-04	7.583E-05	7.583E-05
D	6.0	1.49	414.	0.	0.	34.0	15.8	34.0	9.879E-05	6.317E-05	6.317E-05
D	8.0	1.60	414.	0.	0.	34.0	15.8	34.0	7.419E-05	4.736E-05	4.736E-05



D	10.0	0.23	414.	0.	0.	34.0	15.8	34.0	5.936E-05	3.790E-05	3.790E-05
D	24.5	0.06	414.	0.	0.	34.0	15.8	34.0	2.415E-05	1.541E-05	1.541E-05
E	0.4	0.14	414.	0.	0.	24.2	11.2	72.5	9.441E-04	1.336E-03	9.441E-04
E	0.5	0.17	414.	0.	0.	24.2	11.2	72.5	7.839E-04	1.109E-03	7.839E-04
E	0.7	0.46	414.	0.	0.	24.2	11.2	72.5	5.226E-04	7.393E-04	5.226E-04
E	1.0	1.49	414.	0.	0.	24.2	11.2	72.5	3.920E-04	5.545E-04	3.920E-04
E	1.2	1.03	414.	0.	0.	24.2	11.2	72.5	3.136E-04	4.436E-04	3.136E-04
E	1.5	1.49	414.	0.	0.	24.2	11.2	72.5	2.613E-04	3.697E-04	2.613E-04
E	2.0	3.88	414.	0.	0.	24.2	11.2	72.5	1.964E-04	2.779E-04	1.964E-04
E	3.0	4.23	414.	0.	0.	24.2	11.2	48.6	1.953E-04	1.851E-04	1.851E-04
E	4.0	2.91	414.	0.	0.	24.2	11.2	36.4	1.953E-04	1.388E-04	1.388E-04
E	5.0	2.00	414.	0.	0.	24.2	11.2	29.1	1.953E-04	1.111E-04	1.111E-04
E	6.0	0.63	414.	0.	0.	24.2	11.2	24.3	1.953E-04	9.255E-05	9.255E-05
E	8.0	1.60	414.	0.	0.	24.2	11.2	24.2	1.471E-04	6.939E-05	6.939E-05
E	10.0	0.17	414.	0.	0.	24.2	11.2	24.2	1.177E-04	5.552E-05	5.552E-05
E	24.5	0.06	414.	0.	0.	24.2	11.2	24.2	4.789E-05	2.258E-05	2.258E-05
F	0.4	0.11	414.	0.	0.	16.7	7.1	66.7	1.629E-03	2.172E-03	1.629E-03
F	0.5	0.06	414.	0.	0.	16.7	7.1	66.7	1.353E-03	1.804E-03	1.353E-03
F	0.7	0.46	414.	0.	0.	16.7	7.1	66.7	9.020E-04	1.203E-03	9.020E-04
F	1.0	0.46	414.	0.	0.	16.7	7.1	66.7	6.765E-04	9.019E-04	6.765E-04
F	1.2	0.34	414.	0.	0.	16.7	7.1	66.7	5.412E-04	7.215E-04	5.412E-04
F	1.5	0.57	414.	0.	0.	16.7	7.1	66.7	4.510E-04	6.013E-04	4.510E-04
F	2.0	0.57	414.	0.	0.	16.7	7.1	66.7	3.390E-04	4.520E-04	3.390E-04
F	3.0	0.69	414.	0.	0.	16.7	7.1	40.2	3.743E-04	3.011E-04	3.011E-04
F	5.0	0.06	414.	0.	0.	16.7	7.1	21.1	4.278E-04	1.807E-04	1.807E-04
F	6.0	0.17	414.	0.	0.	16.7	7.1	16.8	4.488E-04	1.505E-04	1.505E-04
G	0.4	0.13	414.	0.	0.	11.5	4.5	69.0	2.500E-03	4.999E-03	2.500E-03
G	0.7	0.40	414.	0.	0.	11.5	4.5	69.0	1.384E-03	2.768E-03	1.384E-03
G	1.0	0.51	414.	0.	0.	11.5	4.5	69.0	1.038E-03	2.076E-03	1.038E-03
G	1.2	0.34	414.	0.	0.	11.5	4.5	69.0	8.303E-04	1.661E-03	8.303E-04
G	1.5	0.46	414.	0.	0.	11.5	4.5	69.0	6.920E-04	1.384E-03	6.920E-04
G	2.0	0.23	414.	0.	0.	11.5	4.5	69.0	5.201E-04	1.040E-03	5.201E-04
G	3.0	0.11	414.	0.	0.	11.5	4.5	35.9	6.657E-04	6.929E-04	6.657E-04
G	4.0	0.23	414.	0.	0.	11.5	4.5	22.5	7.984E-04	5.195E-04	5.195E-04

USNRC COMPUTER CODE-PAVAN, VERSION 2.0

RUN DATE: 03/07/07

PLANT NAME: Oyster Creek

METEOROLOGICAL INSTRUMENTATION

DATA PERIOD:

WIND SENSORS HEIGHT: Ground

TYPE OF RELEASE: Ground Release

DELTA-T HEIGHTS: 10.1-45.7 meters

SOURCE OF DATA:

COMMENTS: Oyster Creek, Ground Release, 1995-1999 met data

PROGRAM: PAVAN, 10/76, 8/79 REVISION, IMPLEMENTATION OF REGULATORY GUIDE 1.145

SITE EXCLUSION BOUNDARY CALCULATIONS:

NW SECTOR BOUNDARY DISTANCE = 414.0 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= 1913. D= 44.8

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.

2.500E-03	1.629E-03	1.384E-03	1.353E-03	1.038E-03	9.441E-04	9.020E-04	8.303E-04	7.839E-04	7.140E-04
0.125	0.233	0.633	0.690	1.204	1.349	1.806	2.148	2.320	2.435
0.00519	0.00968	0.02626	0.02863	0.04995	0.05592	0.07487	0.08909	0.09619	0.10096
6.920E-04	6.765E-04	6.657E-04	5.928E-04	5.412E-04	5.226E-04	5.201E-04	5.195E-04	4.510E-04	3.952E-04
2.892	3.349	3.463	3.520	3.863	4.320	4.548	4.777	5.348	5.633
0.11991	0.13886	0.14360	0.14597	0.16018	0.17913	0.18861	0.19808	0.22177	0.23362
3.920E-04	3.390E-04	3.136E-04	3.011E-04	2.964E-04	2.613E-04	2.371E-04	1.976E-04	1.964E-04	1.962E-04
7.119	7.690	8.718	9.403	10.203	11.688	13.288	15.230	19.114	19.171
0.29521	0.31889	0.36153	0.38996	0.42312	0.48471	0.55104	0.63158	0.79266	0.79503
1.851E-04	1.807E-04	1.505E-04	1.485E-04	1.426E-04	1.388E-04	1.308E-04	1.263E-04	1.111E-04	1.070E-04
23.398	23.455	23.626	27.853	27.911	30.824	30.995	40.763	42.762	42.819
0.97032	0.97269	0.97980	1.15509	1.15746	1.27827	1.28538	1.69044	1.77335	1.77572
9.862E-05	9.831E-05	9.472E-05	9.255E-05	8.556E-05	7.583E-05	7.130E-05	6.939E-05	6.549E-05	6.317E-05
42.822	43.336	49.162	49.791	49.905	51.961	52.133	53.732	54.532	56.017
1.77583	1.79715	2.03877	2.06483	2.06957	2.15484	2.16195	2.22828	2.26144	2.32303
5.552E-05	5.360E-05	4.910E-05	4.736E-05	4.094E-05	3.931E-05	3.790E-05	3.570E-05	3.275E-05	3.275E-05
56.188	56.702	58.873	60.472	60.529	61.215	61.443	63.842	63.899	63.957
2.33014	2.35146	2.44147	2.50780	2.51017	2.53859	2.54807	2.64756	2.64993	2.65230
2.730E-05	2.677E-05	2.455E-05	2.258E-05	2.143E-05	2.052E-05	1.785E-05	1.541E-05	1.367E-05	1.338E-05
64.185	66.641	66.698	66.756	67.841	69.497	69.840	69.897	75.152	75.267
2.66177	2.76363	2.76600	2.76837	2.81338	2.88207	2.89629	2.89866	3.11659	3.12133
1.025E-05	8.203E-06	6.834E-06	5.124E-06						
86.577	96.801	99.829	100.000						
3.59035	4.01437	4.13992	4.14703						

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)= 0.029  
HANDCHECK GRAPH: SLOPE LT -1.0 FOR LOW PERCENTAGES. XSAVE ( 3)= 0.075  
HANDCHECK GRAPH: SLOPE LT -1.0 FOR LOW PERCENTAGES. XSAVE ( 4)= 0.139  
HANDCHECK GRAPH: SLOPE LT -1.0 FOR LOW PERCENTAGES. XSAVE ( 5)= 0.143  
HANDCHECK GRAPH: SLOPE LT -1.0 FOR LOW PERCENTAGES. XSAVE ( 6)= 0.295  
HANDCHECK GRAPH: SLOPE LT -1.0 FOR LOW PERCENTAGES. XSAVE ( 7)= 0.794  
HANDCHECK GRAPH: SLOPE LT -1.0 FOR LOW PERCENTAGES. XSAVE ( 9)= 1.689  
HANDCHECK GRAPH: SLOPE LT -1.0 FOR LOW PERCENTAGES. XSAVE(10)= 2.037

K	I	XQSAVE(K, I)	XQINT(K, I)	XQSLOP(K, I)
7	1	-5.99148	-11.44396	-1.40472
7	2	-6.60541	-11.79617	-1.50698
7	3	-7.01087	-11.98247	-1.56564
7	4	-7.29856	-12.00130	-1.57194
7	5	-7.31468	-14.24110	-2.32319
7	6	-7.84436	-13.41930	-2.02472
7	7	-8.53644	-10.44352	-0.79079
7	8	-8.59460	-12.74212	-1.77391
7	9	-8.97649	-16.96537	-3.76339
7	10	-9.26455	NUMXQ(K)= 10	
		1.161E-03	0.041	1.000
		7.128E-04	0.124	3.000
		5.104E-04	0.207	5.000
		3.117E-04	0.415	10.000
		2.345E-04	0.622	15.000
		1.938E-04	0.829	20.000
		1.771E-04	1.037	25.000
		1.566E-04	1.244	30.000
		1.407E-04	1.451	35.000
		1.281E-04	1.659	40.000
		1.086E-04	1.866	45.000
		2.738E-04	0.5	12.06

ANNUAL AVERAGE = 4.03E-06

K= 7 FIVEXQ(K)= 2.738E-04 FIVEPR(K)=12.057

USNRC COMPUTER CODE-PAVAN, VERSION 2.0

RUN DATE: 03/07/07

PLANT NAME: Oyster Creek

METEOROLOGICAL INSTRUMENTATION

DATA PERIOD:

WIND SENSORS HEIGHT: Ground

TYPE OF RELEASE: Ground Release

DELTA-T HEIGHTS: 10.1-45.7 meters

SOURCE OF DATA:

COMMENTS: Oyster Creek, Ground Release, 1995-1999 met data

PROGRAM: PAVAN, 10/76, 8/79 REVISION, IMPLEMENTATION OF REGULATORY GUIDE 1.145

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

CLASS	METER/SEC	PERCENT	DISTANCE METERS	TERRAIN METERS	HT EFF METERS	PLUME HT METERS	SIGMA-Y METERS	SIGMA-Z METERS	MEANDER-SY METERS	** CHI/Q VALUES (SEC/CUBIC METER)		
										MEANDER	BLDG WAKE	USED
										CA= 957.SQ.METERS		
A	0.4	0.00	414.	0.	0.	84.5	88.5	84.5	1.026E-04	9.862E-05	9.862E-05	
A	1.2	0.11	414.	0.	0.	84.5	88.5	84.5	3.409E-05	3.275E-05	3.275E-05	
A	1.5	0.23	414.	0.	0.	84.5	88.5	84.5	2.841E-05	2.730E-05	2.730E-05	
A	2.0	0.80	414.	0.	0.	84.5	88.5	84.5	2.135E-05	2.052E-05	2.052E-05	
A	3.0	1.78	414.	0.	0.	84.5	88.5	84.5	1.422E-05	1.367E-05	1.367E-05	
A	4.0	3.96	414.	0.	0.	84.5	88.5	84.5	1.066E-05	1.025E-05	1.025E-05	
A	5.0	7.69	414.	0.	0.	84.5	88.5	84.5	8.537E-06	8.203E-06	8.203E-06	
A	6.0	4.54	414.	0.	0.	84.5	88.5	84.5	7.112E-06	6.834E-06	6.834E-06	
A	8.0	1.49	414.	0.	0.	84.5	88.5	84.5	5.332E-06	5.124E-06	5.124E-06	
B	1.5	0.29	414.	0.	0.	63.5	42.1	63.5	7.942E-05	7.130E-05	7.130E-05	
B	2.0	0.57	414.	0.	0.	63.5	42.1	63.5	5.969E-05	5.360E-05	5.360E-05	
B	3.0	1.66	414.	0.	0.	63.5	42.1	63.5	3.977E-05	3.570E-05	3.570E-05	
B	4.0	3.90	414.	0.	0.	63.5	42.1	63.5	2.981E-05	2.677E-05	2.677E-05	
B	5.0	1.95	414.	0.	0.	63.5	42.1	63.5	2.387E-05	2.143E-05	2.143E-05	
B	6.0	0.46	414.	0.	0.	63.5	42.1	63.5	1.988E-05	1.785E-05	1.785E-05	
B	8.0	0.29	414.	0.	0.	63.5	42.1	63.5	1.491E-05	1.338E-05	1.338E-05	
C	0.7	0.06	414.	0.	0.	48.2	27.4	48.2	3.219E-04	2.616E-04	2.616E-04	
C	1.5	0.17	414.	0.	0.	48.2	27.4	48.2	1.610E-04	1.308E-04	1.308E-04	
C	2.0	0.29	414.	0.	0.	48.2	27.4	48.2	1.210E-04	9.831E-05	9.831E-05	
C	3.0	0.69	414.	0.	0.	48.2	27.4	48.2	8.060E-05	6.549E-05	6.549E-05	
C	4.0	1.55	414.	0.	0.	48.2	27.4	48.2	6.043E-05	4.910E-05	4.910E-05	
C	5.0	0.86	414.	0.	0.	48.2	27.4	48.2	4.838E-05	3.931E-05	3.931E-05	
C	6.0	0.06	414.	0.	0.	48.2	27.4	48.2	4.030E-05	3.275E-05	3.275E-05	
C	8.0	0.17	414.	0.	0.	48.2	27.4	48.2	3.021E-05	2.455E-05	2.455E-05	
D	0.4	0.07	414.	0.	0.	34.0	15.8	67.9	7.140E-04	9.116E-04	7.140E-04	
D	0.7	0.17	414.	0.	0.	34.0	15.8	67.9	3.952E-04	5.046E-04	3.952E-04	
D	1.0	0.69	414.	0.	0.	34.0	15.8	67.9	2.964E-04	3.785E-04	2.964E-04	
D	1.2	0.86	414.	0.	0.	34.0	15.8	67.9	2.371E-04	3.028E-04	2.371E-04	
D	1.5	1.49	414.	0.	0.	34.0	15.8	67.9	1.976E-04	2.523E-04	1.976E-04	
D	2.0	2.99	414.	0.	0.	34.0	15.8	67.9	1.485E-04	1.897E-04	1.485E-04	
D	3.0	9.82	414.	0.	0.	34.0	15.8	52.7	1.276E-04	1.263E-04	1.263E-04	
D	4.0	7.12	414.	0.	0.	34.0	15.8	43.9	1.147E-04	9.472E-05	9.472E-05	
D	5.0	2.87	414.	0.	0.	34.0	15.8	38.2	1.057E-04	7.583E-05	7.583E-05	
D	6.0	1.32	414.	0.	0.	34.0	15.8	34.0	9.879E-05	6.317E-05	6.317E-05	
D	8.0	1.66	414.	0.	0.	34.0	15.8	34.0	7.419E-05	4.736E-05	4.736E-05	
D	10.0	0.57	414.	0.	0.	34.0	15.8	34.0	5.936E-05	3.790E-05	3.790E-05	
D	24.5	0.06	414.	0.	0.	34.0	15.8	34.0	2.415E-05	1.541E-05	1.541E-05	
E	0.4	0.20	414.	0.	0.	24.2	11.2	72.5	9.441E-04	1.336E-03	9.441E-04	
E	0.5	0.17	414.	0.	0.	24.2	11.2	72.5	7.839E-04	1.109E-03	7.839E-04	

E	0.7	0.52	414.	0.	0.	24.2	11.2	72.5	5.226E-04	7.393E-04	5.226E-04
E	1.0	2.12	414.	0.	0.	24.2	11.2	72.5	3.920E-04	5.545E-04	3.920E-04
E	1.2	1.55	414.	0.	0.	24.2	11.2	72.5	3.136E-04	4.436E-04	3.136E-04
E	1.5	1.78	414.	0.	0.	24.2	11.2	72.5	2.613E-04	3.697E-04	2.613E-04
E	2.0	4.31	414.	0.	0.	24.2	11.2	72.5	1.964E-04	2.779E-04	1.964E-04
E	3.0	4.76	414.	0.	0.	24.2	11.2	48.6	1.953E-04	1.851E-04	1.851E-04
E	4.0	2.76	414.	0.	0.	24.2	11.2	36.4	1.953E-04	1.388E-04	1.388E-04
E	5.0	2.58	414.	0.	0.	24.2	11.2	29.1	1.953E-04	1.111E-04	1.111E-04
E	6.0	2.53	414.	0.	0.	24.2	11.2	24.3	1.953E-04	9.255E-05	9.255E-05
E	8.0	2.30	414.	0.	0.	24.2	11.2	24.2	1.471E-04	6.939E-05	6.939E-05
E	10.0	1.03	414.	0.	0.	24.2	11.2	24.2	1.177E-04	5.552E-05	5.552E-05
E	24.5	0.46	414.	0.	0.	24.2	11.2	24.2	4.789E-05	2.258E-05	2.258E-05
F	0.4	0.21	414.	0.	0.	16.7	7.1	66.7	1.629E-03	2.172E-03	1.629E-03
F	0.5	0.23	414.	0.	0.	16.7	7.1	66.7	1.353E-03	1.804E-03	1.353E-03
F	0.7	0.52	414.	0.	0.	16.7	7.1	66.7	9.020E-04	1.203E-03	9.020E-04
F	1.0	0.86	414.	0.	0.	16.7	7.1	66.7	6.765E-04	9.019E-04	6.765E-04
F	1.2	0.92	414.	0.	0.	16.7	7.1	66.7	5.412E-04	7.215E-04	5.412E-04
F	1.5	1.44	414.	0.	0.	16.7	7.1	66.7	4.510E-04	6.013E-04	4.510E-04
F	2.0	1.15	414.	0.	0.	16.7	7.1	66.7	3.390E-04	4.520E-04	3.390E-04
F	3.0	0.63	414.	0.	0.	16.7	7.1	40.2	3.743E-04	3.011E-04	3.011E-04
F	4.0	0.23	414.	0.	0.	16.7	7.1	28.0	4.036E-04	2.257E-04	2.257E-04
G	0.4	0.14	414.	0.	0.	11.5	4.5	69.0	2.500E-03	4.999E-03	2.500E-03
G	0.7	0.57	414.	0.	0.	11.5	4.5	69.0	1.384E-03	2.768E-03	1.384E-03
G	1.0	0.57	414.	0.	0.	11.5	4.5	69.0	1.038E-03	2.076E-03	1.038E-03
G	1.2	0.29	414.	0.	0.	11.5	4.5	69.0	8.303E-04	1.661E-03	8.303E-04
G	1.5	0.80	414.	0.	0.	11.5	4.5	69.0	6.920E-04	1.384E-03	6.920E-04
G	2.0	0.57	414.	0.	0.	11.5	4.5	69.0	5.201E-04	1.040E-03	5.201E-04
G	3.0	0.23	414.	0.	0.	11.5	4.5	35.9	6.657E-04	6.929E-04	6.657E-04
G	4.0	0.06	414.	0.	0.	11.5	4.5	22.5	7.984E-04	5.195E-04	5.195E-04
G	5.0	0.11	414.	0.	0.	11.5	4.5	15.6	9.187E-04	4.159E-04	4.159E-04
G	6.0	0.11	414.	0.	0.	11.5	4.5	11.6	1.031E-03	3.465E-04	3.465E-04

USNRC COMPUTER CODE-PAVAN, VERSION 2.0

RUN DATE: 03/07/07

PLANT NAME: Oyster Creek

METEOROLOGICAL INSTRUMENTATION

DATA PERIOD:

WIND SENSORS HEIGHT: Ground

TYPE OF RELEASE: Ground Release

DELTA-T HEIGHTS: 10.1-45.7 meters

SOURCE OF DATA:

COMMENTS: Oyster Creek, Ground Release, 1995-1999 met data

PROGRAM: PAVAN, 10/76, 8/79 REVISION, IMPLEMENTATION OF REGULATORY GUIDE 1.145

SITE EXCLUSION BOUNDARY CALCULATIONS:

NNW SECTOR BOUNDARY DISTANCE = 414.0 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= 1913. D= 44.8

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.

2.500E-03	1.629E-03	1.384E-03	1.353E-03	1.038E-03	9.441E-04	9.020E-04	8.303E-04	7.839E-04	7.140E-04
0.143	0.351	0.925	1.155	1.729	1.929	2.446	2.733	2.905	2.977
0.00590	0.01448	0.03817	0.04764	0.07133	0.07959	0.10091	0.11275	0.11986	0.12284
6.920E-04	6.765E-04	6.657E-04	5.412E-04	5.226E-04	5.201E-04	5.195E-04	4.510E-04	4.159E-04	3.952E-04
3.781	4.642	4.872	5.790	6.307	6.881	6.938	8.373	8.488	8.660
0.15600	0.19154	0.20101	0.23891	0.26023	0.28392	0.28629	0.34551	0.35025	0.35736
3.920E-04	3.465E-04	3.390E-04	3.136E-04	3.011E-04	2.964E-04	2.616E-04	2.613E-04	2.371E-04	2.257E-04
10.785	10.899	12.048	13.598	14.229	14.918	14.975	16.755	17.616	17.846
0.44500	0.44974	0.49712	0.56107	0.58713	0.61556	0.61793	0.69136	0.72689	0.73637
1.976E-04	1.964E-04	1.851E-04	1.485E-04	1.388E-04	1.308E-04	1.263E-04	1.111E-04	9.862E-05	9.831E-05
19.338	23.644	28.409	31.394	34.150	34.322	44.139	46.722	46.725	47.012
0.79796	0.97562	1.17223	1.29541	1.40911	1.41622	1.82129	1.92789	1.92800	1.93984
9.472E-05	9.255E-05	7.583E-05	7.130E-05	6.939E-05	6.549E-05	6.317E-05	5.552E-05	5.360E-05	4.910E-05
54.131	56.657	59.527	59.814	62.110	62.799	64.120	65.153	65.727	67.277
2.23358	2.33780	2.45625	2.46809	2.56284	2.59127	2.64575	2.68839	2.71208	2.77604
4.736E-05	3.931E-05	3.790E-05	3.570E-05	3.275E-05	3.275E-05	2.730E-05	2.677E-05	2.455E-05	2.258E-05
68.942	69.803	70.377	72.042	72.157	72.214	72.444	76.348	76.520	76.979
2.84473	2.88027	2.90395	2.97265	2.97739	2.97976	2.98923	3.15031	3.15742	3.17637
2.143E-05	2.052E-05	1.785E-05	1.541E-05	1.367E-05	1.338E-05	1.025E-05	8.203E-06	6.834E-06	5.124E-06
78.931	79.735	80.194	80.251	82.031	82.318	86.279	93.972	98.507	100.000
3.25691	3.29007	3.30902	3.31139	3.38483	3.39667	3.56012	3.87754	4.06468	4.12627

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)= 0.048  
 HANDCHECK GRAPH: SLOPE LT -1.0 FOR LOW PERCENTAGES. XSAVE ( 3)= 0.201  
 HANDCHECK GRAPH: SLOPE LT -1.0 FOR LOW PERCENTAGES. XSAVE ( 4)= 0.444  
 HANDCHECK GRAPH: SLOPE LT -1.0 FOR LOW PERCENTAGES. XSAVE ( 5)= 0.615  
 HANDCHECK GRAPH: SLOPE LT -1.0 FOR LOW PERCENTAGES. XSAVE ( 6)= 1.171  
 HANDCHECK GRAPH: SLOPE LT -1.0 FOR LOW PERCENTAGES. XSAVE ( 7)= 1.819  
 HANDCHECK GRAPH: SLOPE LT -1.0 FOR LOW PERCENTAGES. XSAVE ( 8)= 2.335

K	I	XQSAVE(K, I)	XQINT(K, I)	XQSLOP(K, I)
8	1	-5.99148	-10.32060	-1.12434
8	2	-6.60541	-12.08879	-1.65946
8	3	-7.31468	-13.16123	-2.03223
8	4	-7.84436	-14.32635	-2.47757
8	5	-8.12372	-13.09859	-1.98715
8	6	-8.59460	-13.57006	-2.19516
8	7	-8.97649	-15.26071	-3.00309
8	8	-9.28775	NUMXQ(K)= 8	
		1.415E-03	0.041	1.000
		8.534E-04	0.124	3.000
		6.547E-04	0.206	5.000
		4.130E-04	0.413	10.000
		2.953E-04	0.619	15.000
		2.403E-04	0.825	20.000
		2.038E-04	1.032	25.000
		1.768E-04	1.238	30.000
		1.549E-04	1.444	35.000
		1.379E-04	1.651	40.000
		1.234E-04	1.857	45.000
		1.083E-04	2.063	50.000
		9.610E-05	2.269	55.000
		3.549E-04	0.5	12.12

ANNUAL AVERAGE = 4.78E-06

K= 8 FIVEXQ(K)= 3.549E-04 FIVEPR(K)=12.117

USNRC COMPUTER CODE-PAVAN, VERSION 2.0

RUN DATE: 03/07/07

PLANT NAME: Oyster Creek

METEOROLOGICAL INSTRUMENTATION

DATA PERIOD:

WIND SENSORS HEIGHT: Ground

TYPE OF RELEASE: Ground Release

DELTA-T HEIGHTS: 10.1-45.7 meters

SOURCE OF DATA:

COMMENTS: Oyster Creek, Ground Release, 1995-1999 met data

PROGRAM: PAVAN, 10/76, 8/79 REVISION, IMPLEMENTATION OF REGULATORY GUIDE 1.145

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

CLASS	METER/SEC AT 10.0 METERS	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	USED
									CA= 957.SQ.METERS		
A	0.4	0.00	414.	0.	0.	84.5	88.5	84.5	1.026E-04	9.862E-05	9.862E-05
A	1.0	0.03	414.	0.	0.	84.5	88.5	84.5	4.261E-05	4.094E-05	4.094E-05
A	1.2	0.03	414.	0.	0.	84.5	88.5	84.5	3.409E-05	3.275E-05	3.275E-05
A	1.5	0.13	414.	0.	0.	84.5	88.5	84.5	2.841E-05	2.730E-05	2.730E-05
A	2.0	0.49	414.	0.	0.	84.5	88.5	84.5	2.135E-05	2.052E-05	2.052E-05
A	3.0	2.51	414.	0.	0.	84.5	88.5	84.5	1.422E-05	1.367E-05	1.367E-05
A	4.0	1.78	414.	0.	0.	84.5	88.5	84.5	1.066E-05	1.025E-05	1.025E-05
A	5.0	3.60	414.	0.	0.	84.5	88.5	84.5	8.537E-06	8.203E-06	8.203E-06
A	6.0	5.90	414.	0.	0.	84.5	88.5	84.5	7.112E-06	6.834E-06	6.834E-06
A	8.0	4.68	414.	0.	0.	84.5	88.5	84.5	5.332E-06	5.124E-06	5.124E-06
A	10.0	0.63	414.	0.	0.	84.5	88.5	84.5	4.267E-06	4.100E-06	4.100E-06
B	1.2	0.03	414.	0.	0.	63.5	42.1	63.5	9.530E-05	8.556E-05	8.556E-05
B	1.5	0.07	414.	0.	0.	63.5	42.1	63.5	7.942E-05	7.130E-05	7.130E-05
B	2.0	0.23	414.	0.	0.	63.5	42.1	63.5	5.969E-05	5.360E-05	5.360E-05
B	3.0	1.02	414.	0.	0.	63.5	42.1	63.5	3.977E-05	3.570E-05	3.570E-05
B	4.0	1.09	414.	0.	0.	63.5	42.1	63.5	2.981E-05	2.677E-05	2.677E-05
B	5.0	1.52	414.	0.	0.	63.5	42.1	63.5	2.387E-05	2.143E-05	2.143E-05
B	6.0	1.06	414.	0.	0.	63.5	42.1	63.5	1.988E-05	1.785E-05	1.785E-05
B	8.0	1.06	414.	0.	0.	63.5	42.1	63.5	1.491E-05	1.338E-05	1.338E-05
B	10.0	0.07	414.	0.	0.	63.5	42.1	63.5	1.193E-05	1.071E-05	1.071E-05
B	24.5	0.03	414.	0.	0.	63.5	42.1	63.5	4.852E-06	4.356E-06	4.356E-06
C	1.2	0.03	414.	0.	0.	48.2	27.4	48.2	1.932E-04	1.570E-04	1.570E-04
C	1.5	0.03	414.	0.	0.	48.2	27.4	48.2	1.610E-04	1.308E-04	1.308E-04
C	2.0	0.13	414.	0.	0.	48.2	27.4	48.2	1.210E-04	9.831E-05	9.831E-05
C	3.0	0.63	414.	0.	0.	48.2	27.4	48.2	8.060E-05	6.549E-05	6.549E-05
C	4.0	0.66	414.	0.	0.	48.2	27.4	48.2	6.043E-05	4.910E-05	4.910E-05
C	5.0	1.02	414.	0.	0.	48.2	27.4	48.2	4.838E-05	3.931E-05	3.931E-05
C	6.0	0.73	414.	0.	0.	48.2	27.4	48.2	4.030E-05	3.275E-05	3.275E-05
C	8.0	0.33	414.	0.	0.	48.2	27.4	48.2	3.021E-05	2.455E-05	2.455E-05
C	24.5	0.03	414.	0.	0.	48.2	27.4	48.2	9.833E-06	7.990E-06	7.990E-06
D	0.4	0.05	414.	0.	0.	34.0	15.8	67.9	7.140E-04	9.116E-04	7.140E-04
D	0.5	0.03	414.	0.	0.	34.0	15.8	67.9	5.928E-04	7.569E-04	5.928E-04
D	0.7	0.23	414.	0.	0.	34.0	15.8	67.9	3.952E-04	5.046E-04	3.952E-04
D	1.0	0.40	414.	0.	0.	34.0	15.8	67.9	2.964E-04	3.785E-04	2.964E-04
D	1.2	0.63	414.	0.	0.	34.0	15.8	67.9	2.371E-04	3.028E-04	2.371E-04
D	1.5	0.76	414.	0.	0.	34.0	15.8	67.9	1.976E-04	2.523E-04	1.976E-04
D	2.0	2.24	414.	0.	0.	34.0	15.8	67.9	1.485E-04	1.897E-04	1.485E-04
D	3.0	6.70	414.	0.	0.	34.0	15.8	52.7	1.276E-04	1.263E-04	1.263E-04
D	4.0	6.50	414.	0.	0.	34.0	15.8	43.9	1.147E-04	9.472E-05	9.472E-05
D	5.0	4.82	414.	0.	0.	34.0	15.8	38.2	1.057E-04	7.583E-05	7.583E-05



D	6.0	2.71	414.	0.	0.	34.0	15.8	34.0	9.879E-05	6.317E-05	6.317E-05
D	8.0	2.64	414.	0.	0.	34.0	15.8	34.0	7.419E-05	4.736E-05	4.736E-05
D	10.0	1.06	414.	0.	0.	34.0	15.8	34.0	5.936E-05	3.790E-05	3.790E-05
D	24.5	0.16	414.	0.	0.	34.0	15.8	34.0	2.415E-05	1.541E-05	1.541E-05
E	0.4	0.14	414.	0.	0.	24.2	11.2	72.5	9.441E-04	1.336E-03	9.441E-04
E	0.5	0.13	414.	0.	0.	24.2	11.2	72.5	7.839E-04	1.109E-03	7.839E-04
E	0.7	0.49	414.	0.	0.	24.2	11.2	72.5	5.226E-04	7.393E-04	5.226E-04
E	1.0	1.48	414.	0.	0.	24.2	11.2	72.5	3.920E-04	5.545E-04	3.920E-04
E	1.2	0.99	414.	0.	0.	24.2	11.2	72.5	3.136E-04	4.436E-04	3.136E-04
E	1.5	1.81	414.	0.	0.	24.2	11.2	72.5	2.613E-04	3.697E-04	2.613E-04
E	2.0	3.89	414.	0.	0.	24.2	11.2	72.5	1.964E-04	2.779E-04	1.964E-04
E	3.0	7.72	414.	0.	0.	24.2	11.2	48.6	1.953E-04	1.851E-04	1.851E-04
E	4.0	5.01	414.	0.	0.	24.2	11.2	36.4	1.953E-04	1.388E-04	1.388E-04
E	5.0	3.73	414.	0.	0.	24.2	11.2	29.1	1.953E-04	1.111E-04	1.111E-04
E	6.0	1.65	414.	0.	0.	24.2	11.2	24.3	1.953E-04	9.255E-05	9.255E-05
E	8.0	1.68	414.	0.	0.	24.2	11.2	24.2	1.471E-04	6.939E-05	6.939E-05
E	10.0	0.76	414.	0.	0.	24.2	11.2	24.2	1.177E-04	5.552E-05	5.552E-05
E	24.5	0.30	414.	0.	0.	24.2	11.2	24.2	4.789E-05	2.258E-05	2.258E-05
F	0.4	0.14	414.	0.	0.	16.7	7.1	66.7	1.629E-03	2.172E-03	1.629E-03
F	0.5	0.07	414.	0.	0.	16.7	7.1	66.7	1.353E-03	1.804E-03	1.353E-03
F	0.7	0.36	414.	0.	0.	16.7	7.1	66.7	9.020E-04	1.203E-03	9.020E-04
F	1.0	0.56	414.	0.	0.	16.7	7.1	66.7	6.765E-04	9.019E-04	6.765E-04
F	1.2	0.66	414.	0.	0.	16.7	7.1	66.7	5.412E-04	7.215E-04	5.412E-04
F	1.5	1.22	414.	0.	0.	16.7	7.1	66.7	4.510E-04	6.013E-04	4.510E-04
F	2.0	1.65	414.	0.	0.	16.7	7.1	66.7	3.390E-04	4.520E-04	3.390E-04
F	3.0	1.22	414.	0.	0.	16.7	7.1	40.2	3.743E-04	3.011E-04	3.011E-04
F	4.0	0.30	414.	0.	0.	16.7	7.1	28.0	4.036E-04	2.257E-04	2.257E-04
F	5.0	0.16	414.	0.	0.	16.7	7.1	21.1	4.278E-04	1.807E-04	1.807E-04
F	6.0	0.13	414.	0.	0.	16.7	7.1	16.8	4.488E-04	1.505E-04	1.505E-04
F	8.0	0.03	414.	0.	0.	16.7	7.1	16.7	3.386E-04	1.129E-04	1.129E-04
F	10.0	0.03	414.	0.	0.	16.7	7.1	16.7	2.710E-04	9.031E-05	9.031E-05
G	0.4	0.24	414.	0.	0.	11.5	4.5	69.0	2.500E-03	4.999E-03	2.500E-03
G	0.5	0.13	414.	0.	0.	11.5	4.5	69.0	2.076E-03	4.151E-03	2.076E-03
G	0.7	0.79	414.	0.	0.	11.5	4.5	69.0	1.384E-03	2.768E-03	1.384E-03
G	1.0	1.06	414.	0.	0.	11.5	4.5	69.0	1.038E-03	2.076E-03	1.038E-03
G	1.2	0.43	414.	0.	0.	11.5	4.5	69.0	8.303E-04	1.661E-03	8.303E-04
G	1.5	0.92	414.	0.	0.	11.5	4.5	69.0	6.920E-04	1.384E-03	6.920E-04
G	2.0	0.79	414.	0.	0.	11.5	4.5	69.0	5.201E-04	1.040E-03	5.201E-04
G	3.0	0.49	414.	0.	0.	11.5	4.5	35.9	6.657E-04	6.929E-04	6.657E-04
G	4.0	0.10	414.	0.	0.	11.5	4.5	22.5	7.984E-04	5.195E-04	5.195E-04
G	5.0	0.10	414.	0.	0.	11.5	4.5	15.6	9.187E-04	4.159E-04	4.159E-04
G	6.0	0.07	414.	0.	0.	11.5	4.5	11.6	1.031E-03	3.465E-04	3.465E-04
G	8.0	0.07	414.	0.	0.	11.5	4.5	11.5	7.793E-04	2.597E-04	2.597E-04

USNRC COMPUTER CODE-PAVAN, VERSION 2.0

RUN DATE: 03/07/07

PLANT NAME: Oyster Creek

METEOROLOGICAL INSTRUMENTATION

DATA PERIOD:

WIND SENSORS HEIGHT: Ground

TYPE OF RELEASE: Ground Release

DELTA-T HEIGHTS: 10.1-45.7 meters

SOURCE OF DATA:

COMMENTS: Oyster Creek, Ground Release, 1995-1999 met data

PROGRAM: PAVAN, 10/76, 8/79 REVISION, IMPLEMENTATION OF REGULATORY GUIDE 1.145

SITE EXCLUSION BOUNDARY CALCULATIONS:

N SECTOR BOUNDARY DISTANCE = 414.0 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= 1913. D= 44.8

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.

2.500E-03	2.076E-03	1.629E-03	1.384E-03	1.353E-03	1.038E-03	9.441E-04	9.020E-04	8.303E-04	7.839E-04
0.240	0.372	0.508	1.299	1.365	2.421	2.563	2.926	3.355	3.487
0.01723	0.02670	0.03645	0.09330	0.09804	0.17384	0.18406	0.21012	0.24091	0.25039
7.140E-04	6.920E-04	6.765E-04	6.657E-04	5.928E-04	5.412E-04	5.226E-04	5.201E-04	5.195E-04	4.510E-04
3.541	4.465	5.025	5.520	5.553	6.213	6.708	7.499	7.598	8.819
0.25426	0.32059	0.36086	0.39639	0.39876	0.44614	0.48167	0.53852	0.54563	0.63327
4.159E-04	3.952E-04	3.920E-04	3.465E-04	3.390E-04	3.136E-04	3.011E-04	2.964E-04	2.613E-04	2.597E-04
8.918	9.149	10.633	10.699	12.349	13.338	14.559	14.955	16.769	16.835
0.64038	0.65696	0.76356	0.76830	0.88674	0.95780	1.04545	1.07387	1.20416	1.20890
2.371E-04	2.257E-04	1.976E-04	1.964E-04	1.851E-04	1.807E-04	1.570E-04	1.505E-04	1.485E-04	1.388E-04
17.462	17.759	18.517	22.410	30.129	30.294	30.327	30.459	32.702	37.717
1.25391	1.27522	1.32971	1.60923	2.16353	2.17538	2.17775	2.18722	2.34830	2.70836
1.308E-04	1.263E-04	1.129E-04	1.111E-04	9.862E-05	9.831E-05	9.472E-05	9.255E-05	9.031E-05	8.556E-05
37.750	44.446	44.479	48.207	48.208	48.340	54.839	56.489	56.521	56.554
2.71073	3.19161	3.19397	3.46165	3.46176	3.47124	3.93790	4.05634	4.05871	4.06107
7.583E-05	7.130E-05	6.939E-05	6.549E-05	6.317E-05	5.552E-05	5.360E-05	4.910E-05	4.736E-05	4.094E-05
61.371	61.437	63.119	63.746	66.451	67.210	67.441	68.100	70.739	70.772
4.40692	4.41166	4.53247	4.57748	4.77172	4.82621	4.84279	4.89016	5.07967	5.08204
3.931E-05	3.790E-05	3.570E-05	3.275E-05	3.275E-05	2.730E-05	2.677E-05	2.455E-05	2.258E-05	2.143E-05
71.795	72.851	73.873	73.906	74.632	74.764	75.853	76.182	76.479	77.997
5.15547	5.23128	5.30471	5.30708	5.35919	5.36867	5.44684	5.47053	5.49185	5.60081
2.052E-05	1.785E-05	1.541E-05	1.367E-05	1.338E-05	1.071E-05	1.025E-05	8.203E-06	7.990E-06	6.834E-06
78.492	79.547	79.712	82.219	83.275	83.341	85.122	88.718	88.751	94.656
5.63634	5.71215	5.72399	5.90402	5.97983	5.98456	6.11248	6.37068	6.37305	6.79707
5.124E-06	4.356E-06	4.100E-06							
99.340	99.373	100.000							

7.13344      7.13581      7.18082

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)= 0.093  
 HANDCHECK GRAPH: SLOPE LT -1.0 FOR LOW PERCENTAGES. XSAVE ( 3)= 0.174  
 HANDCHECK GRAPH: SLOPE LT -1.0 FOR LOW PERCENTAGES. XSAVE ( 4)= 0.396  
 HANDCHECK GRAPH: SLOPE LT -1.0 FOR LOW PERCENTAGES. XSAVE ( 5)= 0.545  
 HANDCHECK GRAPH: SLOPE LT -1.0 FOR LOW PERCENTAGES. XSAVE ( 6)= 1.073  
 HANDCHECK GRAPH: SLOPE LT -1.0 FOR LOW PERCENTAGES. XSAVE ( 7)= 2.161  
 HANDCHECK GRAPH: SLOPE LT -1.0 FOR LOW PERCENTAGES. XSAVE ( 8)= 3.189  
 HANDCHECK GRAPH: SLOPE LT -1.0 FOR LOW PERCENTAGES. XSAVE ( 9)= 4.053

K	I	XQSAVE(K, I)	XQINT(K, I)	XQSLOP(K, I)
9	1	-5.99148	-10.51055	-1.26250
9	2	-6.58285	-11.32783	-1.52520
9	3	-6.87053	-11.73358	-1.66404
9	4	-7.31468	-13.32189	-2.26216
9	5	-7.56266	-13.36973	-2.28095
9	6	-8.12372	-12.01382	-1.69141
9	7	-8.59460	-13.19638	-2.27639
9	8	-8.97649	-14.26087	-2.85062
9	9	-9.28775		
			NUMXQ(K)= 9	
		1.524E-03	0.072	1.000
		9.278E-04	0.215	3.000
		7.035E-04	0.359	5.000
		4.160E-04	0.718	10.000
		2.959E-04	1.077	15.000
		2.452E-04	1.436	20.000
		2.108E-04	1.795	25.000
		1.857E-04	2.154	30.000
		1.602E-04	2.513	35.000
		1.405E-04	2.872	40.000
		1.244E-04	3.231	45.000
		1.086E-04	3.590	50.000
		9.588E-05	3.949	55.000
		5.564E-04	0.5	6.96

ANNUAL AVERAGE = 8.51E-06

K= 9 FIVEXQ(K)= 5.564E-04 FIVEPR(K)= 6.963

USNRC COMPUTER CODE-PAVAN, VERSION 2.0

RUN DATE: 03/07/07

PLANT NAME: Oyster Creek

METEOROLOGICAL INSTRUMENTATION

DATA PERIOD:

WIND SENSORS HEIGHT: Ground

TYPE OF RELEASE: Ground Release

DELTA-T HEIGHTS: 10.1-45.7 meters

SOURCE OF DATA:

COMMENTS: Oyster Creek, Ground Release, 1995-1999 met data

PROGRAM: PAVAN, 10/76, 8/79 REVISION, IMPLEMENTATION OF REGULATORY GUIDE 1.145

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

CLASS	METER/SEC	PERCENT	METERS	METERS	METERS	SIGMA-Y	SIGMA-Z	MEANDER-SY	** CHI/Q VALUES (SEC/CUBIC METER)		
									MEANDER	BLDG WAKE	USED
AT 10.0 METERS									CA= 957.SQ.METERS		
A	0.4	0.00	414.	0.	0.	84.5	88.5	84.5	1.026E-04	9.862E-05	9.862E-05
A	0.7	0.03	414.	0.	0.	84.5	88.5	84.5	5.681E-05	5.459E-05	5.459E-05
A	1.2	0.07	414.	0.	0.	84.5	88.5	84.5	3.409E-05	3.275E-05	3.275E-05
A	1.5	0.14	414.	0.	0.	84.5	88.5	84.5	2.841E-05	2.730E-05	2.730E-05
A	2.0	0.37	414.	0.	0.	84.5	88.5	84.5	2.135E-05	2.052E-05	2.052E-05
A	3.0	1.43	414.	0.	0.	84.5	88.5	84.5	1.422E-05	1.367E-05	1.367E-05
A	4.0	1.09	414.	0.	0.	84.5	88.5	84.5	1.066E-05	1.025E-05	1.025E-05
A	5.0	1.94	414.	0.	0.	84.5	88.5	84.5	8.537E-06	8.203E-06	8.203E-06
A	6.0	1.73	414.	0.	0.	84.5	88.5	84.5	7.112E-06	6.834E-06	6.834E-06
A	8.0	2.35	414.	0.	0.	84.5	88.5	84.5	5.332E-06	5.124E-06	5.124E-06
A	10.0	0.48	414.	0.	0.	84.5	88.5	84.5	4.267E-06	4.100E-06	4.100E-06
A	24.5	0.03	414.	0.	0.	84.5	88.5	84.5	1.735E-06	1.667E-06	1.667E-06
B	1.0	0.03	414.	0.	0.	63.5	42.1	63.5	1.191E-04	1.070E-04	1.070E-04
B	1.2	0.07	414.	0.	0.	63.5	42.1	63.5	9.530E-05	8.556E-05	8.556E-05
B	1.5	0.03	414.	0.	0.	63.5	42.1	63.5	7.942E-05	7.130E-05	7.130E-05
B	2.0	0.24	414.	0.	0.	63.5	42.1	63.5	5.969E-05	5.360E-05	5.360E-05
B	3.0	0.95	414.	0.	0.	63.5	42.1	63.5	3.977E-05	3.570E-05	3.570E-05
B	4.0	0.71	414.	0.	0.	63.5	42.1	63.5	2.981E-05	2.677E-05	2.677E-05
B	5.0	0.88	414.	0.	0.	63.5	42.1	63.5	2.387E-05	2.143E-05	2.143E-05
B	6.0	0.61	414.	0.	0.	63.5	42.1	63.5	1.988E-05	1.785E-05	1.785E-05
B	8.0	0.78	414.	0.	0.	63.5	42.1	63.5	1.491E-05	1.338E-05	1.338E-05
B	10.0	0.07	414.	0.	0.	63.5	42.1	63.5	1.193E-05	1.071E-05	1.071E-05
C	1.2	0.07	414.	0.	0.	48.2	27.4	48.2	1.932E-04	1.570E-04	1.570E-04
C	1.5	0.03	414.	0.	0.	48.2	27.4	48.2	1.610E-04	1.308E-04	1.308E-04
C	2.0	0.27	414.	0.	0.	48.2	27.4	48.2	1.210E-04	9.831E-05	9.831E-05
C	3.0	0.31	414.	0.	0.	48.2	27.4	48.2	8.060E-05	6.549E-05	6.549E-05
C	4.0	0.31	414.	0.	0.	48.2	27.4	48.2	6.043E-05	4.910E-05	4.910E-05
C	5.0	0.58	414.	0.	0.	48.2	27.4	48.2	4.838E-05	3.931E-05	3.931E-05
C	6.0	0.34	414.	0.	0.	48.2	27.4	48.2	4.030E-05	3.275E-05	3.275E-05
C	8.0	0.31	414.	0.	0.	48.2	27.4	48.2	3.021E-05	2.455E-05	2.455E-05
C	10.0	0.03	414.	0.	0.	48.2	27.4	48.2	2.418E-05	1.965E-05	1.965E-05
D	0.4	0.04	414.	0.	0.	34.0	15.8	67.9	7.140E-04	9.116E-04	7.140E-04
D	0.5	0.03	414.	0.	0.	34.0	15.8	67.9	5.928E-04	7.569E-04	5.928E-04
D	0.7	0.24	414.	0.	0.	34.0	15.8	67.9	3.952E-04	5.046E-04	3.952E-04
D	1.0	0.31	414.	0.	0.	34.0	15.8	67.9	2.964E-04	3.785E-04	2.964E-04
D	1.2	0.44	414.	0.	0.	34.0	15.8	67.9	2.371E-04	3.028E-04	2.371E-04
D	1.5	0.88	414.	0.	0.	34.0	15.8	67.9	1.976E-04	2.523E-04	1.976E-04
D	2.0	1.63	414.	0.	0.	34.0	15.8	67.9	1.485E-04	1.897E-04	1.485E-04
D	3.0	4.39	414.	0.	0.	34.0	15.8	52.7	1.276E-04	1.263E-04	1.263E-04
D	4.0	4.76	414.	0.	0.	34.0	15.8	43.9	1.147E-04	9.472E-05	9.472E-05

D	5.0	4.39	414.	0.	0.	34.0	15.8	38.2	1.057E-04	7.583E-05	7.583E-05
D	6.0	3.33	414.	0.	0.	34.0	15.8	34.0	9.879E-05	6.317E-05	6.317E-05
D	8.0	3.57	414.	0.	0.	34.0	15.8	34.0	7.419E-05	4.736E-05	4.736E-05
D	10.0	1.29	414.	0.	0.	34.0	15.8	34.0	5.936E-05	3.790E-05	3.790E-05
D	24.5	0.44	414.	0.	0.	34.0	15.8	34.0	2.415E-05	1.541E-05	1.541E-05
E	0.4	0.16	414.	0.	0.	24.2	11.2	72.5	9.441E-04	1.336E-03	9.441E-04
E	0.5	0.20	414.	0.	0.	24.2	11.2	72.5	7.839E-04	1.109E-03	7.839E-04
E	0.7	0.54	414.	0.	0.	24.2	11.2	72.5	5.226E-04	7.393E-04	5.226E-04
E	1.0	1.29	414.	0.	0.	24.2	11.2	72.5	3.920E-04	5.545E-04	3.920E-04
E	1.2	1.46	414.	0.	0.	24.2	11.2	72.5	3.136E-04	4.436E-04	3.136E-04
E	1.5	2.21	414.	0.	0.	24.2	11.2	72.5	2.613E-04	3.697E-04	2.613E-04
E	2.0	5.37	414.	0.	0.	24.2	11.2	72.5	1.964E-04	2.779E-04	1.964E-04
E	3.0	10.50	414.	0.	0.	24.2	11.2	48.6	1.953E-04	1.851E-04	1.851E-04
E	4.0	9.38	414.	0.	0.	24.2	11.2	36.4	1.953E-04	1.388E-04	1.388E-04
E	5.0	5.40	414.	0.	0.	24.2	11.2	29.1	1.953E-04	1.111E-04	1.111E-04
E	6.0	2.58	414.	0.	0.	24.2	11.2	24.3	1.953E-04	9.255E-05	9.255E-05
E	8.0	2.11	414.	0.	0.	24.2	11.2	24.2	1.471E-04	6.939E-05	6.939E-05
E	10.0	0.37	414.	0.	0.	24.2	11.2	24.2	1.177E-04	5.552E-05	5.552E-05
F	0.4	0.22	414.	0.	0.	16.7	7.1	66.7	1.629E-03	2.172E-03	1.629E-03
F	0.5	0.17	414.	0.	0.	16.7	7.1	66.7	1.353E-03	1.804E-03	1.353E-03
F	0.7	0.54	414.	0.	0.	16.7	7.1	66.7	9.020E-04	1.203E-03	9.020E-04
F	1.0	0.75	414.	0.	0.	16.7	7.1	66.7	6.765E-04	9.019E-04	6.765E-04
F	1.2	1.22	414.	0.	0.	16.7	7.1	66.7	5.412E-04	7.215E-04	5.412E-04
F	1.5	1.33	414.	0.	0.	16.7	7.1	66.7	4.510E-04	6.013E-04	4.510E-04
F	2.0	2.58	414.	0.	0.	16.7	7.1	66.7	3.390E-04	4.520E-04	3.390E-04
F	3.0	2.92	414.	0.	0.	16.7	7.1	40.2	3.743E-04	3.011E-04	3.011E-04
F	4.0	0.34	414.	0.	0.	16.7	7.1	28.0	4.036E-04	2.257E-04	2.257E-04
F	5.0	0.27	414.	0.	0.	16.7	7.1	21.1	4.278E-04	1.807E-04	1.807E-04
F	8.0	0.03	414.	0.	0.	16.7	7.1	16.7	3.386E-04	1.129E-04	1.129E-04
G	0.4	0.31	414.	0.	0.	11.5	4.5	69.0	2.500E-03	4.999E-03	2.500E-03
G	0.5	0.37	414.	0.	0.	11.5	4.5	69.0	2.076E-03	4.151E-03	2.076E-03
G	0.7	0.68	414.	0.	0.	11.5	4.5	69.0	1.384E-03	2.768E-03	1.384E-03
G	1.0	1.12	414.	0.	0.	11.5	4.5	69.0	1.038E-03	2.076E-03	1.038E-03
G	1.2	0.99	414.	0.	0.	11.5	4.5	69.0	8.303E-04	1.661E-03	8.303E-04
G	1.5	0.92	414.	0.	0.	11.5	4.5	69.0	6.920E-04	1.384E-03	6.920E-04
G	2.0	0.99	414.	0.	0.	11.5	4.5	69.0	5.201E-04	1.040E-03	5.201E-04
G	3.0	0.51	414.	0.	0.	11.5	4.5	35.9	6.657E-04	6.929E-04	6.657E-04
G	4.0	0.10	414.	0.	0.	11.5	4.5	22.5	7.984E-04	5.195E-04	5.195E-04

USNRC COMPUTER CODE-PAVAN, VERSION 2.0

RUN DATE: 03/07/07

PLANT NAME: Oyster Creek

METEOROLOGICAL INSTRUMENTATION

DATA PERIOD:

WIND SENSORS HEIGHT: Ground

TYPE OF RELEASE: Ground Release

DELTA-T HEIGHTS: 10.1-45.7 meters

SOURCE OF DATA:

COMMENTS: Oyster Creek, Ground Release, 1995-1999 met data

PROGRAM: PAVAN, 10/76, 8/79 REVISION, IMPLEMENTATION OF REGULATORY GUIDE 1.145

SITE EXCLUSION BOUNDARY CALCULATIONS:

NNE SECTOR BOUNDARY DISTANCE = 414.0 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= 1913. D= 44.8

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.

2.500E-03	2.076E-03	1.629E-03	1.384E-03	1.353E-03	1.038E-03	9.441E-04	9.020E-04	8.303E-04	7.839E-04
0.315	0.689	0.910	1.590	1.760	2.881	3.042	3.586	4.572	4.776
0.02194	0.04800	0.06341	0.11078	0.12263	0.20080	0.21199	0.24989	0.31859	0.33280
7.140E-04	6.920E-04	6.765E-04	6.657E-04	5.928E-04	5.412E-04	5.226E-04	5.201E-04	5.195E-04	4.510E-04
4.818	5.736	6.484	6.994	7.028	8.252	8.796	9.781	9.883	11.209
0.33578	0.39974	0.45186	0.48739	0.48976	0.57503	0.61294	0.68163	0.68874	0.78112
3.952E-04	3.920E-04	3.390E-04	3.136E-04	3.011E-04	2.964E-04	2.613E-04	2.371E-04	2.257E-04	1.976E-04
11.447	12.739	15.322	16.784	19.707	20.013	22.223	22.665	23.004	23.888
0.79770	0.88772	1.06775	1.16961	1.37333	1.39465	1.54862	1.57942	1.60311	1.66470
1.964E-04	1.851E-04	1.807E-04	1.570E-04	1.485E-04	1.388E-04	1.308E-04	1.263E-04	1.129E-04	1.111E-04
29.259	39.763	40.035	40.103	41.734	51.116	51.150	55.535	55.569	60.974
2.03897	2.77094	2.78989	2.79463	2.90833	3.56212	3.56449	3.87007	3.87244	4.24908
1.070E-04	9.862E-05	9.831E-05	9.472E-05	9.255E-05	8.556E-05	7.583E-05	7.130E-05	6.939E-05	6.549E-05
61.008	61.011	61.282	66.041	68.625	68.693	73.078	73.112	75.219	75.525
4.25145	4.25162	4.27057	4.60221	4.78224	4.78697	5.09255	5.09492	5.24179	5.26311
6.317E-05	5.552E-05	5.459E-05	5.360E-05	4.910E-05	4.736E-05	3.931E-05	3.790E-05	3.570E-05	3.275E-05
78.857	79.231	79.265	79.502	79.808	83.378	83.956	85.247	86.199	86.267
5.49525	5.52131	5.52368	5.54026	5.56158	5.81031	5.85058	5.94059	6.00692	6.01166
3.275E-05	2.730E-05	2.677E-05	2.455E-05	2.143E-05	2.052E-05	1.965E-05	1.785E-05	1.541E-05	1.367E-05
86.607	86.743	87.457	87.763	88.646	89.020	89.054	89.666	90.108	91.536
6.03534	6.04482	6.09456	6.11588	6.17747	6.20353	6.20590	6.24854	6.27933	6.37882
1.338E-05	1.071E-05	1.025E-05	8.203E-06	6.834E-06	5.124E-06	4.100E-06	1.667E-06		
92.318	92.386	93.473	95.411	97.145	99.490	99.966	100.000		
6.43331	6.43804	6.51385	6.64887	6.76968	6.93313	6.96629	6.96866		

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)= 0.123  
 HANDCHECK GRAPH: SLOPE LT -1.0 FOR LOW PERCENTAGES. XSAVE ( 4)= 0.487  
 HANDCHECK GRAPH: SLOPE LT -1.0 FOR LOW PERCENTAGES. XSAVE ( 5)= 0.688  
 HANDCHECK GRAPH: SLOPE LT -1.0 FOR LOW PERCENTAGES. XSAVE ( 6)= 1.372  
 HANDCHECK GRAPH: SLOPE LT -1.0 FOR LOW PERCENTAGES. XSAVE ( 7)= 2.768  
 HANDCHECK GRAPH: SLOPE LT -1.0 FOR LOW PERCENTAGES. XSAVE ( 8)= 3.867  
 HANDCHECK GRAPH: SLOPE LT -1.0 FOR LOW PERCENTAGES. XSAVE ( 9)= 4.246  
 HANDCHECK GRAPH: SLOPE LT -1.0 FOR LOW PERCENTAGES. XSAVE(10)= 4.779

K	I	XQSAVE(K, I)	XQINT(K, I)	XQSLOP(K, I)
10	1	-5.99148	-9.05304	-0.87083
10	2	-6.17738	-11.35915	-1.56918
10	3	-6.60541	-11.44058	-1.59606
10	4	-7.31468	-12.58869	-2.04019
10	5	-7.56266	-12.76587	-2.11211
10	6	-8.10810	-11.81712	-1.68189
10	7	-8.59460	-13.48424	-2.55200
10	8	-8.97649	-14.20085	-2.95769
10	9	-9.10513	-14.70777	-3.25193
10	10	-9.28775	NUMXQ(K) = 10	
		1.758E-03	0.070	1.000
		1.040E-03	0.209	3.000
		7.981E-04	0.348	5.000
		5.149E-04	0.697	10.000
		3.757E-04	1.045	15.000
		2.982E-04	1.394	20.000
		2.568E-04	1.742	25.000
		2.264E-04	2.091	30.000
		2.030E-04	2.439	35.000
		1.839E-04	2.787	40.000
		1.611E-04	3.136	45.000
		1.428E-04	3.484	50.000
		1.278E-04	3.833	55.000
		1.136E-04	4.181	60.000
		1.007E-04	4.530	65.000
		6.538E-04	0.5	7.17

ANNUAL AVERAGE = 1.01E-05

K= 10 FIVEXQ(K) = 6.538E-04 FIVEPR(K) = 7.175

USNRC COMPUTER CODE-PAVAN, VERSION 2.0

RUN DATE: 03/07/07

PLANT NAME: Oyster Creek

METEOROLOGICAL INSTRUMENTATION

DATA PERIOD:

WIND SENSORS HEIGHT: Ground

TYPE OF RELEASE: Ground Release

DELTA-T HEIGHTS: 10.1-45.7 meters

SOURCE OF DATA:

COMMENTS: Oyster Creek, Ground Release, 1995-1999 met data

PROGRAM: PAVAN, 10/76, 8/79 REVISION, IMPLEMENTATION OF REGULATORY GUIDE 1.145

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

CLASS	METER/SEC	PERCENT	METERS	METERS	METERS	SIGMA-Y	SIGMA-Z	MEANDER-SY	** CHI/Q VALUES (SEC/CUBIC METER)			
									MEANDER	BLDG WAKE	USED	
AT 10.0 METERS												
A	0.4	0.00	414.	0.	0.	84.5	88.5	84.5	1.026E-04	9.862E-05	9.862E-05	
A	1.2	0.07	414.	0.	0.	84.5	88.5	84.5	3.409E-05	3.275E-05	3.275E-05	
A	1.5	0.18	414.	0.	0.	84.5	88.5	84.5	2.841E-05	2.730E-05	2.730E-05	
A	2.0	0.65	414.	0.	0.	84.5	88.5	84.5	2.135E-05	2.052E-05	2.052E-05	
A	3.0	2.03	414.	0.	0.	84.5	88.5	84.5	1.422E-05	1.367E-05	1.367E-05	
A	4.0	1.49	414.	0.	0.	84.5	88.5	84.5	1.066E-05	1.025E-05	1.025E-05	
A	5.0	2.17	414.	0.	0.	84.5	88.5	84.5	8.537E-06	8.203E-06	8.203E-06	
A	6.0	1.01	414.	0.	0.	84.5	88.5	84.5	7.112E-06	6.834E-06	6.834E-06	
A	8.0	0.72	414.	0.	0.	84.5	88.5	84.5	5.332E-06	5.124E-06	5.124E-06	
A	10.0	0.18	414.	0.	0.	84.5	88.5	84.5	4.267E-06	4.100E-06	4.100E-06	
A	24.5	0.11	414.	0.	0.	84.5	88.5	84.5	1.735E-06	1.667E-06	1.667E-06	
B	1.0	0.04	414.	0.	0.	63.5	42.1	63.5	1.191E-04	1.070E-04	1.070E-04	
B	1.2	0.04	414.	0.	0.	63.5	42.1	63.5	9.530E-05	8.556E-05	8.556E-05	
B	1.5	0.11	414.	0.	0.	63.5	42.1	63.5	7.942E-05	7.130E-05	7.130E-05	
B	2.0	0.25	414.	0.	0.	63.5	42.1	63.5	5.969E-05	5.360E-05	5.360E-05	
B	3.0	1.09	414.	0.	0.	63.5	42.1	63.5	3.977E-05	3.570E-05	3.570E-05	
B	4.0	0.80	414.	0.	0.	63.5	42.1	63.5	2.981E-05	2.677E-05	2.677E-05	
B	5.0	0.43	414.	0.	0.	63.5	42.1	63.5	2.387E-05	2.143E-05	2.143E-05	
B	6.0	0.18	414.	0.	0.	63.5	42.1	63.5	1.988E-05	1.785E-05	1.785E-05	
B	8.0	0.25	414.	0.	0.	63.5	42.1	63.5	1.491E-05	1.338E-05	1.338E-05	
B	10.0	0.04	414.	0.	0.	63.5	42.1	63.5	1.193E-05	1.071E-05	1.071E-05	
C	1.2	0.07	414.	0.	0.	48.2	27.4	48.2	1.932E-04	1.570E-04	1.570E-04	
C	1.5	0.11	414.	0.	0.	48.2	27.4	48.2	1.610E-04	1.308E-04	1.308E-04	
C	2.0	0.22	414.	0.	0.	48.2	27.4	48.2	1.210E-04	9.831E-05	9.831E-05	
C	3.0	0.43	414.	0.	0.	48.2	27.4	48.2	8.060E-05	6.549E-05	6.549E-05	
C	4.0	0.29	414.	0.	0.	48.2	27.4	48.2	6.043E-05	4.910E-05	4.910E-05	
C	5.0	0.22	414.	0.	0.	48.2	27.4	48.2	4.838E-05	3.931E-05	3.931E-05	
C	6.0	0.11	414.	0.	0.	48.2	27.4	48.2	4.030E-05	3.275E-05	3.275E-05	
C	8.0	0.07	414.	0.	0.	48.2	27.4	48.2	3.021E-05	2.455E-05	2.455E-05	
C	10.0	0.07	414.	0.	0.	48.2	27.4	48.2	2.418E-05	1.965E-05	1.965E-05	
C	24.5	0.04	414.	0.	0.	48.2	27.4	48.2	9.833E-06	7.990E-06	7.990E-06	
D	0.4	0.05	414.	0.	0.	34.0	15.8	67.9	7.140E-04	9.116E-04	7.140E-04	
D	0.5	0.07	414.	0.	0.	34.0	15.8	67.9	5.928E-04	7.569E-04	5.928E-04	
D	0.7	0.25	414.	0.	0.	34.0	15.8	67.9	3.952E-04	5.046E-04	3.952E-04	
D	1.0	0.40	414.	0.	0.	34.0	15.8	67.9	2.964E-04	3.785E-04	2.964E-04	
D	1.2	0.43	414.	0.	0.	34.0	15.8	67.9	2.371E-04	3.028E-04	2.371E-04	
D	1.5	0.83	414.	0.	0.	34.0	15.8	67.9	1.976E-04	2.523E-04	1.976E-04	
D	2.0	1.30	414.	0.	0.	34.0	15.8	67.9	1.485E-04	1.897E-04	1.485E-04	
D	3.0	3.41	414.	0.	0.	34.0	15.8	52.7	1.276E-04	1.263E-04	1.263E-04	
D	4.0	2.75	414.	0.	0.	34.0	15.8	43.9	1.147E-04	9.472E-05	9.472E-05	



D	5.0	1.88	414.	0.	0.	34.0	15.8	38.2	1.057E-04	7.583E-05	7.583E-05
D	6.0	0.87	414.	0.	0.	34.0	15.8	34.0	9.879E-05	6.317E-05	6.317E-05
D	8.0	1.01	414.	0.	0.	34.0	15.8	34.0	7.419E-05	4.736E-05	4.736E-05
D	10.0	0.22	414.	0.	0.	34.0	15.8	34.0	5.936E-05	3.790E-05	3.790E-05
E	0.4	0.18	414.	0.	0.	24.2	11.2	72.5	9.441E-04	1.336E-03	9.441E-04
E	0.5	0.22	414.	0.	0.	24.2	11.2	72.5	7.839E-04	1.109E-03	7.839E-04
E	0.7	0.40	414.	0.	0.	24.2	11.2	72.5	5.226E-04	7.393E-04	5.226E-04
E	1.0	1.70	414.	0.	0.	24.2	11.2	72.5	3.920E-04	5.545E-04	3.920E-04
E	1.2	1.70	414.	0.	0.	24.2	11.2	72.5	3.136E-04	4.436E-04	3.136E-04
E	1.5	2.57	414.	0.	0.	24.2	11.2	72.5	2.613E-04	3.697E-04	2.613E-04
E	2.0	6.20	414.	0.	0.	24.2	11.2	72.5	1.964E-04	2.779E-04	1.964E-04
E	3.0	14.43	414.	0.	0.	24.2	11.2	48.6	1.953E-04	1.851E-04	1.851E-04
E	4.0	9.46	414.	0.	0.	24.2	11.2	36.4	1.953E-04	1.388E-04	1.388E-04
E	5.0	3.23	414.	0.	0.	24.2	11.2	29.1	1.953E-04	1.111E-04	1.111E-04
E	6.0	1.27	414.	0.	0.	24.2	11.2	24.3	1.953E-04	9.255E-05	9.255E-05
E	8.0	0.47	414.	0.	0.	24.2	11.2	24.2	1.471E-04	6.939E-05	6.939E-05
E	10.0	0.04	414.	0.	0.	24.2	11.2	24.2	1.177E-04	5.552E-05	5.552E-05
F	0.4	0.26	414.	0.	0.	16.7	7.1	66.7	1.629E-03	2.172E-03	1.629E-03
F	0.5	0.18	414.	0.	0.	16.7	7.1	66.7	1.353E-03	1.804E-03	1.353E-03
F	0.7	0.65	414.	0.	0.	16.7	7.1	66.7	9.020E-04	1.203E-03	9.020E-04
F	1.0	0.80	414.	0.	0.	16.7	7.1	66.7	6.765E-04	9.019E-04	6.765E-04
F	1.2	1.56	414.	0.	0.	16.7	7.1	66.7	5.412E-04	7.215E-04	5.412E-04
F	1.5	1.81	414.	0.	0.	16.7	7.1	66.7	4.510E-04	6.013E-04	4.510E-04
F	2.0	3.70	414.	0.	0.	16.7	7.1	66.7	3.390E-04	4.520E-04	3.390E-04
F	3.0	5.15	414.	0.	0.	16.7	7.1	40.2	3.743E-04	3.011E-04	3.011E-04
F	4.0	1.12	414.	0.	0.	16.7	7.1	28.0	4.036E-04	2.257E-04	2.257E-04
F	5.0	0.22	414.	0.	0.	16.7	7.1	21.1	4.278E-04	1.807E-04	1.807E-04
F	6.0	0.07	414.	0.	0.	16.7	7.1	16.8	4.488E-04	1.505E-04	1.505E-04
G	0.4	0.58	414.	0.	0.	11.5	4.5	69.0	2.500E-03	4.999E-03	2.500E-03
G	0.5	0.36	414.	0.	0.	11.5	4.5	69.0	2.076E-03	4.151E-03	2.076E-03
G	0.7	1.12	414.	0.	0.	11.5	4.5	69.0	1.384E-03	2.768E-03	1.384E-03
G	1.0	2.25	414.	0.	0.	11.5	4.5	69.0	1.038E-03	2.076E-03	1.038E-03
G	1.2	2.14	414.	0.	0.	11.5	4.5	69.0	8.303E-04	1.661E-03	8.303E-04
G	1.5	3.15	414.	0.	0.	11.5	4.5	69.0	6.920E-04	1.384E-03	6.920E-04
G	2.0	3.81	414.	0.	0.	11.5	4.5	69.0	5.201E-04	1.040E-03	5.201E-04
G	3.0	2.03	414.	0.	0.	11.5	4.5	35.9	6.657E-04	6.929E-04	6.657E-04
G	4.0	0.04	414.	0.	0.	11.5	4.5	22.5	7.984E-04	5.195E-04	5.195E-04
G	5.0	0.04	414.	0.	0.	11.5	4.5	15.6	9.187E-04	4.159E-04	4.159E-04
G	6.0	0.07	414.	0.	0.	11.5	4.5	11.6	1.031E-03	3.465E-04	3.465E-04
G	8.0	0.04	414.	0.	0.	11.5	4.5	11.5	7.793E-04	2.597E-04	2.597E-04

USNRC COMPUTER CODE-PAVAN, VERSION 2.0

RUN DATE: 03/07/07

PLANT NAME: Oyster Creek

METEOROLOGICAL INSTRUMENTATION

DATA PERIOD:

WIND SENSORS HEIGHT: Ground

TYPE OF RELEASE: Ground Release

DELTA-T HEIGHTS: 10.1-45.7 meters

SOURCE OF DATA:

COMMENTS: Oyster Creek, Ground Release, 1995-1999 met data

PROGRAM: PAVAN, 10/76, 8/79 REVISION, IMPLEMENTATION OF REGULATORY GUIDE 1.145

SITE EXCLUSION BOUNDARY CALCULATIONS:

NE SECTOR BOUNDARY DISTANCE = 414.0 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= 1913. D= 44.8

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.

2.500E-03	2.076E-03	1.629E-03	1.384E-03	1.353E-03	1.038E-03	9.441E-04	9.020E-04	8.303E-04	7.839E-04
0.585	0.947	1.210	2.334	2.515	4.762	4.947	5.599	7.738	7.955
0.03823	0.06191	0.07907	0.15251	0.16435	0.31122	0.32328	0.36592	0.50568	0.51990
7.140E-04	6.920E-04	6.765E-04	6.657E-04	5.928E-04	5.412E-04	5.226E-04	5.201E-04	5.195E-04	4.510E-04
8.004	11.157	11.955	13.985	14.057	15.616	16.014	19.820	19.857	21.669
0.52307	0.72916	0.78128	0.91393	0.91867	1.02053	1.04659	1.29531	1.29768	1.41612
4.159E-04	3.952E-04	3.920E-04	3.465E-04	3.390E-04	3.136E-04	3.011E-04	2.964E-04	2.613E-04	2.597E-04
21.705	21.959	23.663	23.735	27.432	29.136	34.283	34.682	37.255	37.291
1.41849	1.43507	1.54641	1.55115	1.79277	1.90410	2.24047	2.26653	2.43472	2.43709
2.371E-04	2.257E-04	1.976E-04	1.964E-04	1.851E-04	1.807E-04	1.570E-04	1.505E-04	1.485E-04	1.388E-04
37.726	38.850	39.684	45.882	60.308	60.526	60.598	60.670	61.975	71.436
2.46551	2.53895	2.59343	2.99850	3.94129	3.95550	3.96024	3.96498	4.05026	4.66852
1.308E-04	1.263E-04	1.111E-04	1.070E-04	9.862E-05	9.831E-05	9.472E-05	9.255E-05	8.556E-05	7.583E-05
71.545	74.952	78.178	78.214	78.216	78.433	81.188	82.457	82.493	84.378
4.67563	4.89830	5.10912	5.11149	5.11160	5.12581	5.30585	5.38875	5.39112	5.51430
7.130E-05	6.939E-05	6.549E-05	6.317E-05	5.552E-05	5.360E-05	4.910E-05	4.736E-05	3.931E-05	3.790E-05
84.486	84.958	85.393	86.262	86.299	86.552	86.842	87.857	88.075	88.292
5.52141	5.55220	5.58063	5.63748	5.63985	5.65643	5.67538	5.74171	5.75592	5.77014
3.570E-05	3.275E-05	3.275E-05	2.730E-05	2.677E-05	2.455E-05	2.143E-05	2.052E-05	1.965E-05	1.785E-05
89.380	89.452	89.561	89.742	90.540	90.612	91.047	91.699	91.772	91.953
5.84120	5.84594	5.85305	5.86489	5.91700	5.92174	5.95017	5.99281	5.99754	6.00939
1.367E-05	1.338E-05	1.071E-05	1.025E-05	8.203E-06	7.990E-06	6.834E-06	5.124E-06	4.100E-06	1.667E-06
93.983	94.237	94.273	95.759	97.934	97.970	98.985	99.710	99.891	100.000
6.14204	6.15862	6.16099	6.25812	6.40025	6.40261	6.46894	6.51632	6.52816	6.53527

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)= 0.062  
 HANDCHECK GRAPH: SLOPE LT -1.0 FOR LOW PERCENTAGES. XSAVE ( 3)= 0.505  
 HANDCHECK GRAPH: SLOPE LT -1.0 FOR LOW PERCENTAGES. XSAVE ( 4)= 0.913  
 HANDCHECK GRAPH: SLOPE LT -1.0 FOR LOW PERCENTAGES. XSAVE ( 5)= 1.296  
 HANDCHECK GRAPH: SLOPE LT -1.0 FOR LOW PERCENTAGES. XSAVE ( 6)= 2.238  
 HANDCHECK GRAPH: SLOPE LT -1.0 FOR LOW PERCENTAGES. XSAVE ( 7)= 3.938  
 HANDCHECK GRAPH: SLOPE LT -1.0 FOR LOW PERCENTAGES. XSAVE ( 8)= 4.665  
 HANDCHECK GRAPH: SLOPE LT -1.0 FOR LOW PERCENTAGES. XSAVE ( 9)= 4.895  
 HANDCHECK GRAPH: SLOPE LT -1.0 FOR LOW PERCENTAGES. XSAVE (10)= 5.105

K	I	XQSAVE(K, I)	XQINT(K, I)	XQSLOP(K, I)
11	1	-5.99148	-10.61294	-1.37317
11	2	-6.17738	-10.67663	-1.39289
11	3	-7.09367	-9.77567	-1.04264
11	4	-7.31468	-11.71525	-1.86436
11	5	-7.56266	-13.07297	-2.47393
11	6	-8.10810	-12.03013	-1.95430
11	7	-8.59460	-14.94955	-3.61501
11	8	-8.88266	-15.70201	-4.06337
11	9	-8.97649	-19.39386	-6.29389
11	10	-9.10513	NUMXQ(K)= 10	
		2.032E-03	0.065	1.000
		1.283E-03	0.196	3.000
		1.020E-03	0.327	5.000
		7.559E-04	0.654	10.000
		6.341E-04	0.980	15.000
		5.159E-04	1.307	20.000
		4.149E-04	1.634	25.000
		3.454E-04	1.961	30.000
		2.960E-04	2.287	35.000
		2.648E-04	2.614	40.000
		2.396E-04	2.941	45.000
		2.187E-04	3.268	50.000
		2.011E-04	3.594	55.000
		1.860E-04	3.921	60.000
		1.631E-04	4.248	65.000
		1.437E-04	4.575	70.000
		1.261E-04	4.901	75.000
		8.349E-04	0.5	7.65

ANNUAL AVERAGE = 1.36E-05

K= 11 FIVEXQ(K)= 8.349E-04 FIVEPR(K)= 7.651

USNRC COMPUTER CODE-PAVAN, VERSION 2.0

RUN DATE: 03/07/07

PLANT NAME: Oyster Creek  
 DATA PERIOD:  
 TYPE OF RELEASE: Ground Release  
 SOURCE OF DATA:

METEOROLOGICAL INSTRUMENTATION  
 WIND SENSORS HEIGHT: Ground  
 DELTA-T HEIGHTS: 10.1-45.7 meters

COMMENTS: Oyster Creek, Ground Release, 1995-1999 met data  
 PROGRAM: PAVAN, 10/76, 8/79 REVISION, IMPLEMENTATION OF REGULATORY GUIDE 1.145

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

CLASS	METER/SEC AT 10.0 METERS	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	USED
									CA= 957.SQ.METERS		
A	0.4	0.00	414.	0.	0.	84.5	88.5	84.5	1.026E-04	9.862E-05	9.862E-05
A	0.7	0.02	414.	0.	0.	84.5	88.5	84.5	5.681E-05	5.459E-05	5.459E-05
A	1.2	0.05	414.	0.	0.	84.5	88.5	84.5	3.409E-05	3.275E-05	3.275E-05
A	1.5	0.09	414.	0.	0.	84.5	88.5	84.5	2.841E-05	2.730E-05	2.730E-05
A	2.0	0.38	414.	0.	0.	84.5	88.5	84.5	2.135E-05	2.052E-05	2.052E-05
A	3.0	1.35	414.	0.	0.	84.5	88.5	84.5	1.422E-05	1.367E-05	1.367E-05
A	4.0	2.08	414.	0.	0.	84.5	88.5	84.5	1.066E-05	1.025E-05	1.025E-05
A	5.0	1.90	414.	0.	0.	84.5	88.5	84.5	8.537E-06	8.203E-06	8.203E-06
A	6.0	1.11	414.	0.	0.	84.5	88.5	84.5	7.112E-06	6.834E-06	6.834E-06
A	8.0	0.59	414.	0.	0.	84.5	88.5	84.5	5.332E-06	5.124E-06	5.124E-06
A	10.0	0.07	414.	0.	0.	84.5	88.5	84.5	4.267E-06	4.100E-06	4.100E-06
B	1.2	0.02	414.	0.	0.	63.5	42.1	63.5	9.530E-05	8.556E-05	8.556E-05
B	1.5	0.14	414.	0.	0.	63.5	42.1	63.5	7.942E-05	7.130E-05	7.130E-05
B	2.0	0.23	414.	0.	0.	63.5	42.1	63.5	5.969E-05	5.360E-05	5.360E-05
B	3.0	1.02	414.	0.	0.	63.5	42.1	63.5	3.977E-05	3.570E-05	3.570E-05
B	4.0	0.97	414.	0.	0.	63.5	42.1	63.5	2.981E-05	2.677E-05	2.677E-05
B	5.0	0.68	414.	0.	0.	63.5	42.1	63.5	2.387E-05	2.143E-05	2.143E-05
B	6.0	0.25	414.	0.	0.	63.5	42.1	63.5	1.988E-05	1.785E-05	1.785E-05
B	8.0	0.29	414.	0.	0.	63.5	42.1	63.5	1.491E-05	1.338E-05	1.338E-05
C	1.2	0.07	414.	0.	0.	48.2	27.4	48.2	1.932E-04	1.570E-04	1.570E-04
C	1.5	0.02	414.	0.	0.	48.2	27.4	48.2	1.610E-04	1.308E-04	1.308E-04
C	2.0	0.14	414.	0.	0.	48.2	27.4	48.2	1.210E-04	9.831E-05	9.831E-05
C	3.0	0.43	414.	0.	0.	48.2	27.4	48.2	8.060E-05	6.549E-05	6.549E-05
C	4.0	0.38	414.	0.	0.	48.2	27.4	48.2	6.043E-05	4.910E-05	4.910E-05
C	5.0	0.29	414.	0.	0.	48.2	27.4	48.2	4.838E-05	3.931E-05	3.931E-05
C	6.0	0.09	414.	0.	0.	48.2	27.4	48.2	4.030E-05	3.275E-05	3.275E-05
C	8.0	0.07	414.	0.	0.	48.2	27.4	48.2	3.021E-05	2.455E-05	2.455E-05
C	10.0	0.02	414.	0.	0.	48.2	27.4	48.2	2.418E-05	1.965E-05	1.965E-05
D	0.4	0.03	414.	0.	0.	34.0	15.8	67.9	7.140E-04	9.116E-04	7.140E-04
D	0.5	0.05	414.	0.	0.	34.0	15.8	67.9	5.928E-04	7.569E-04	5.928E-04
D	0.7	0.11	414.	0.	0.	34.0	15.8	67.9	3.952E-04	5.046E-04	3.952E-04
D	1.0	0.25	414.	0.	0.	34.0	15.8	67.9	2.964E-04	3.785E-04	2.964E-04
D	1.2	0.27	414.	0.	0.	34.0	15.8	67.9	2.371E-04	3.028E-04	2.371E-04
D	1.5	0.52	414.	0.	0.	34.0	15.8	67.9	1.976E-04	2.523E-04	1.976E-04
D	2.0	1.06	414.	0.	0.	34.0	15.8	67.9	1.485E-04	1.897E-04	1.485E-04
D	3.0	2.73	414.	0.	0.	34.0	15.8	52.7	1.276E-04	1.263E-04	1.263E-04
D	4.0	2.73	414.	0.	0.	34.0	15.8	43.9	1.147E-04	9.472E-05	9.472E-05
D	5.0	1.65	414.	0.	0.	34.0	15.8	38.2	1.057E-04	7.583E-05	7.583E-05
D	6.0	0.79	414.	0.	0.	34.0	15.8	34.0	9.879E-05	6.317E-05	6.317E-05
D	8.0	0.54	414.	0.	0.	34.0	15.8	34.0	7.419E-05	4.736E-05	4.736E-05

D	10.0	0.05	414.	0.	0.	34.0	15.8	34.0	5.936E-05	3.790E-05	3.790E-05
E	0.4	0.10	414.	0.	0.	24.2	11.2	72.5	9.441E-04	1.336E-03	9.441E-04
E	0.5	0.09	414.	0.	0.	24.2	11.2	72.5	7.839E-04	1.109E-03	7.839E-04
E	0.7	0.34	414.	0.	0.	24.2	11.2	72.5	5.226E-04	7.393E-04	5.226E-04
E	1.0	0.79	414.	0.	0.	24.2	11.2	72.5	3.920E-04	5.545E-04	3.920E-04
E	1.2	0.95	414.	0.	0.	24.2	11.2	72.5	3.136E-04	4.436E-04	3.136E-04
E	1.5	1.83	414.	0.	0.	24.2	11.2	72.5	2.613E-04	3.697E-04	2.613E-04
E	2.0	4.83	414.	0.	0.	24.2	11.2	72.5	1.964E-04	2.779E-04	1.964E-04
E	3.0	10.04	414.	0.	0.	24.2	11.2	48.6	1.953E-04	1.851E-04	1.851E-04
E	4.0	4.92	414.	0.	0.	24.2	11.2	36.4	1.953E-04	1.388E-04	1.388E-04
E	5.0	1.56	414.	0.	0.	24.2	11.2	29.1	1.953E-04	1.111E-04	1.111E-04
E	6.0	0.34	414.	0.	0.	24.2	11.2	24.3	1.953E-04	9.255E-05	9.255E-05
E	8.0	0.29	414.	0.	0.	24.2	11.2	24.2	1.471E-04	6.939E-05	6.939E-05
E	10.0	0.02	414.	0.	0.	24.2	11.2	24.2	1.177E-04	5.552E-05	5.552E-05
F	0.4	0.17	414.	0.	0.	16.7	7.1	66.7	1.629E-03	2.172E-03	1.629E-03
F	0.5	0.07	414.	0.	0.	16.7	7.1	66.7	1.353E-03	1.804E-03	1.353E-03
F	0.7	0.38	414.	0.	0.	16.7	7.1	66.7	9.020E-04	1.203E-03	9.020E-04
F	1.0	0.77	414.	0.	0.	16.7	7.1	66.7	6.765E-04	9.019E-04	6.765E-04
F	1.2	0.90	414.	0.	0.	16.7	7.1	66.7	5.412E-04	7.215E-04	5.412E-04
F	1.5	1.83	414.	0.	0.	16.7	7.1	66.7	4.510E-04	6.013E-04	4.510E-04
F	2.0	4.79	414.	0.	0.	16.7	7.1	66.7	3.390E-04	4.520E-04	3.390E-04
F	3.0	7.15	414.	0.	0.	16.7	7.1	40.2	3.743E-04	3.011E-04	3.011E-04
F	4.0	0.72	414.	0.	0.	16.7	7.1	28.0	4.036E-04	2.257E-04	2.257E-04
F	5.0	0.09	414.	0.	0.	16.7	7.1	21.1	4.278E-04	1.807E-04	1.807E-04
F	6.0	0.02	414.	0.	0.	16.7	7.1	16.8	4.488E-04	1.505E-04	1.505E-04
G	0.4	0.99	414.	0.	0.	11.5	4.5	69.0	2.500E-03	4.999E-03	2.500E-03
G	0.5	0.32	414.	0.	0.	11.5	4.5	69.0	2.076E-03	4.151E-03	2.076E-03
G	0.7	1.56	414.	0.	0.	11.5	4.5	69.0	1.384E-03	2.768E-03	1.384E-03
G	1.0	4.22	414.	0.	0.	11.5	4.5	69.0	1.038E-03	2.076E-03	1.038E-03
G	1.2	3.88	414.	0.	0.	11.5	4.5	69.0	8.303E-04	1.661E-03	8.303E-04
G	1.5	6.41	414.	0.	0.	11.5	4.5	69.0	6.920E-04	1.384E-03	6.920E-04
G	2.0	11.13	414.	0.	0.	11.5	4.5	69.0	5.201E-04	1.040E-03	5.201E-04
G	3.0	4.88	414.	0.	0.	11.5	4.5	35.9	6.657E-04	6.929E-04	6.657E-04
G	4.0	0.05	414.	0.	0.	11.5	4.5	22.5	7.984E-04	5.195E-04	5.195E-04
G	6.0	0.02	414.	0.	0.	11.5	4.5	11.6	1.031E-03	3.465E-04	3.465E-04
G	8.0	0.05	414.	0.	0.	11.5	4.5	11.5	7.793E-04	2.597E-04	2.597E-04

USNRC COMPUTER CODE-PAVAN, VERSION 2.0

RUN DATE: 03/07/07

PLANT NAME: Oyster Creek

METEOROLOGICAL INSTRUMENTATION

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COMMENTS: Oyster Creek, Ground Release, 1995-1999 met data

PROGRAM: PAVAN, 10/76, 8/79 REVISION, IMPLEMENTATION OF REGULATORY GUIDE 1.145

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AS A FUNCTION OF DOWNWIND DISTANCE.

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BUILDING WAKE CREDIT ALLOWED: C= 0.5 A= 1913. D= 44.8

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2.500E-03	2.076E-03	1.629E-03	1.384E-03	1.353E-03	1.038E-03	9.441E-04	9.020E-04	8.303E-04	7.839E-04
0.994	1.310	1.484	3.042	3.109	7.330	7.430	7.813	11.696	11.786
0.10430	0.13746	0.15579	0.31924	0.32634	0.76931	0.77975	0.82002	1.22746	1.23693
7.140E-04	6.920E-04	6.765E-04	6.657E-04	5.928E-04	5.412E-04	5.226E-04	5.201E-04	5.195E-04	4.510E-04
11.814	18.224	18.992	23.867	23.912	24.815	25.154	36.281	36.326	38.154
1.23991	1.91266	1.99320	2.50487	2.50960	2.60436	2.63989	3.80772	3.81246	4.00433
3.952E-04	3.920E-04	3.465E-04	3.390E-04	3.136E-04	3.011E-04	2.964E-04	2.613E-04	2.597E-04	2.371E-04
38.267	39.057	39.080	43.865	44.813	51.968	52.216	54.044	54.089	54.360
4.01618	4.09909	4.10145	4.60365	4.70314	5.45405	5.48011	5.67199	5.67672	5.70515
2.257E-04	1.976E-04	1.964E-04	1.851E-04	1.807E-04	1.570E-04	1.505E-04	1.485E-04	1.388E-04	1.308E-04
55.082	55.602	60.432	70.476	70.566	70.634	70.656	71.717	76.638	76.660
5.78095	5.83544	6.34236	7.39649	7.40597	7.41307	7.41544	7.52678	8.04318	8.04555
1.263E-04	1.111E-04	9.862E-05	9.831E-05	9.472E-05	9.255E-05	8.556E-05	7.583E-05	7.130E-05	6.939E-05
79.391	80.949	80.950	81.086	83.817	84.155	84.178	85.826	85.961	86.254
8.33218	8.49563	8.49579	8.51001	8.79663	8.83217	8.83454	9.00746	9.02167	9.05247
6.549E-05	6.317E-05	5.552E-05	5.459E-05	5.360E-05	4.910E-05	4.736E-05	3.931E-05	3.790E-05	3.570E-05
86.683	87.473	87.496	87.518	87.744	88.128	88.669	88.963	89.008	90.024
9.09747	9.18038	9.18275	9.18512	9.20881	9.24908	9.30593	9.33673	9.34146	9.44806
3.275E-05	3.275E-05	2.730E-05	2.677E-05	2.455E-05	2.143E-05	2.052E-05	1.965E-05	1.785E-05	1.367E-05
90.069	90.159	90.249	91.220	91.288	91.965	92.348	92.371	92.619	93.974
9.45280	9.46227	9.47175	9.57361	9.58072	9.65178	9.69205	9.69442	9.72048	9.86260
1.338E-05	1.025E-05	8.203E-06	6.834E-06	5.124E-06	4.100E-06				
94.267	96.344	98.239	99.345	99.932	100.000				
9.89340	10.11133	10.31031	10.42638	10.48797	10.49508				

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 ( 4)= 3.804  
 HANDCHECK GRAPH: SLOPE LT -1.0 FOR LOW PERCENTAGES. XSAVE ( 5)= 3.809  
 HANDCHECK GRAPH: SLOPE LT -1.0 FOR LOW PERCENTAGES. XSAVE ( 6)= 5.450  
 HANDCHECK GRAPH: SLOPE LT -1.0 FOR LOW PERCENTAGES. XSAVE ( 7)= 7.393  
 HANDCHECK GRAPH: SLOPE LT -1.0 FOR LOW PERCENTAGES. XSAVE ( 8)= 8.329  
 HANDCHECK GRAPH: SLOPE LT -1.0 FOR LOW PERCENTAGES. XSAVE ( 9)= 8.793

K	I	XQSAVE(K, I)	XQINT(K, I)	XQSLOP(K, I)
12	1	-5.99148	-10.08311	-1.32931
12	2	-7.09367	-8.81162	-0.76392
12	3	-7.31468	-9.91837	-1.32871
12	4	-7.56144	-11.33756	-2.12878
12	5	-7.56266	-13.23232	-3.19728
12	6	-8.10810	-13.12157	-3.12818
12	7	-8.59460	-17.25042	-5.98126
12	8	-8.97649	-22.39221	-9.69828
12	9	-9.26455	NUMXQ(K)= 9	
		2.494E-03	0.105	1.000
		1.579E-03	0.315	3.000
		1.255E-03	0.525	5.000
		8.990E-04	1.050	10.000
		7.707E-04	1.574	15.000
		7.047E-04	2.099	20.000
		6.483E-04	2.624	25.000
		5.831E-04	3.149	30.000
		5.316E-04	3.673	35.000
		4.503E-04	4.198	40.000
		3.767E-04	4.723	45.000
		3.199E-04	5.248	50.000
		2.757E-04	5.772	55.000
		2.403E-04	6.297	60.000
		2.113E-04	6.822	65.000
		1.872E-04	7.347	70.000
		1.518E-04	7.871	75.000
		1.214E-04	8.396	80.000
		1.283E-03	0.5	4.76

ANNUAL AVERAGE = 2.87E-05

K= 12 FIVEXQ(K)= 1.283E-03 FIVEPR(K)= 4.764

USNRC COMPUTER CODE-PAVAN, VERSION 2.0

RUN DATE: 03/07/07

PLANT NAME: Oyster Creek  
 DATA PERIOD:  
 TYPE OF RELEASE: Ground Release  
 SOURCE OF DATA:  
 COMMENTS: Oyster Creek, Ground Release, 1995-1999 met data  
 PROGRAM: PAVAN, 10/76, 8/79 REVISION, IMPLEMENTATION OF REGULATORY GUIDE 1.145

METEOROLOGICAL INSTRUMENTATION  
 WIND SENSORS HEIGHT: Ground  
 DELTA-T HEIGHTS: 10.1-45.7 meters

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

CLASS	METER/SEC	PERCENT	DISTANCE METERS	TERRAIN METERS	HT METERS	EFF METERS	PLUME HT METERS	SIGMA-Y METERS	SIGMA-Z METERS	MEANDER-SY METERS	** CHI/Q VALUES (SEC/CUBIC METER)			
											MEANDER	BLDG WAKE	USED	
AT 10.0 METERS												CA= 957.SQ.METERS		
A	0.4	0.00	414.	0.	0.	84.5	88.5	84.5	1.026E-04	9.862E-05	9.862E-05			
A	0.5	0.02	414.	0.	0.	84.5	88.5	84.5	8.522E-05	8.189E-05	8.189E-05			
A	1.2	0.04	414.	0.	0.	84.5	88.5	84.5	3.409E-05	3.275E-05	3.275E-05			
A	1.5	0.18	414.	0.	0.	84.5	88.5	84.5	2.841E-05	2.730E-05	2.730E-05			
A	2.0	0.44	414.	0.	0.	84.5	88.5	84.5	2.135E-05	2.052E-05	2.052E-05			
A	3.0	1.28	414.	0.	0.	84.5	88.5	84.5	1.422E-05	1.367E-05	1.367E-05			
A	4.0	2.44	414.	0.	0.	84.5	88.5	84.5	1.066E-05	1.025E-05	1.025E-05			
A	5.0	2.93	414.	0.	0.	84.5	88.5	84.5	8.537E-06	8.203E-06	8.203E-06			
A	6.0	1.87	414.	0.	0.	84.5	88.5	84.5	7.112E-06	6.834E-06	6.834E-06			
A	8.0	1.59	414.	0.	0.	84.5	88.5	84.5	5.332E-06	5.124E-06	5.124E-06			
A	10.0	0.35	414.	0.	0.	84.5	88.5	84.5	4.267E-06	4.100E-06	4.100E-06			
B	1.0	0.02	414.	0.	0.	63.5	42.1	63.5	1.191E-04	1.070E-04	1.070E-04			
B	1.2	0.02	414.	0.	0.	63.5	42.1	63.5	9.530E-05	8.556E-05	8.556E-05			
B	1.5	0.04	414.	0.	0.	63.5	42.1	63.5	7.942E-05	7.130E-05	7.130E-05			
B	2.0	0.35	414.	0.	0.	63.5	42.1	63.5	5.969E-05	5.360E-05	5.360E-05			
B	3.0	0.64	414.	0.	0.	63.5	42.1	63.5	3.977E-05	3.570E-05	3.570E-05			
B	4.0	1.21	414.	0.	0.	63.5	42.1	63.5	2.981E-05	2.677E-05	2.677E-05			
B	5.0	0.95	414.	0.	0.	63.5	42.1	63.5	2.387E-05	2.143E-05	2.143E-05			
B	6.0	0.46	414.	0.	0.	63.5	42.1	63.5	1.988E-05	1.785E-05	1.785E-05			
B	8.0	0.29	414.	0.	0.	63.5	42.1	63.5	1.491E-05	1.338E-05	1.338E-05			
B	10.0	0.09	414.	0.	0.	63.5	42.1	63.5	1.193E-05	1.071E-05	1.071E-05			
C	1.0	0.02	414.	0.	0.	48.2	27.4	48.2	2.414E-04	1.962E-04	1.962E-04			
C	1.5	0.04	414.	0.	0.	48.2	27.4	48.2	1.610E-04	1.308E-04	1.308E-04			
C	2.0	0.22	414.	0.	0.	48.2	27.4	48.2	1.210E-04	9.831E-05	9.831E-05			
C	3.0	0.62	414.	0.	0.	48.2	27.4	48.2	8.060E-05	6.549E-05	6.549E-05			
C	4.0	0.42	414.	0.	0.	48.2	27.4	48.2	6.043E-05	4.910E-05	4.910E-05			
C	5.0	0.35	414.	0.	0.	48.2	27.4	48.2	4.838E-05	3.931E-05	3.931E-05			
C	6.0	0.20	414.	0.	0.	48.2	27.4	48.2	4.030E-05	3.275E-05	3.275E-05			
C	8.0	0.33	414.	0.	0.	48.2	27.4	48.2	3.021E-05	2.455E-05	2.455E-05			
C	10.0	0.02	414.	0.	0.	48.2	27.4	48.2	2.418E-05	1.965E-05	1.965E-05			
D	0.4	0.04	414.	0.	0.	34.0	15.8	67.9	7.140E-04	9.116E-04	7.140E-04			
D	0.5	0.02	414.	0.	0.	34.0	15.8	67.9	5.928E-04	7.569E-04	5.928E-04			
D	0.7	0.11	414.	0.	0.	34.0	15.8	67.9	3.952E-04	5.046E-04	3.952E-04			
D	1.0	0.24	414.	0.	0.	34.0	15.8	67.9	2.964E-04	3.785E-04	2.964E-04			
D	1.2	0.46	414.	0.	0.	34.0	15.8	67.9	2.371E-04	3.028E-04	2.371E-04			
D	1.5	0.77	414.	0.	0.	34.0	15.8	67.9	1.976E-04	2.523E-04	1.976E-04			
D	2.0	1.25	414.	0.	0.	34.0	15.8	67.9	1.485E-04	1.897E-04	1.485E-04			
D	3.0	2.93	414.	0.	0.	34.0	15.8	52.7	1.276E-04	1.263E-04	1.263E-04			
D	4.0	3.19	414.	0.	0.	34.0	15.8	43.9	1.147E-04	9.472E-05	9.472E-05			
D	5.0	2.11	414.	0.	0.	34.0	15.8	38.2	1.057E-04	7.583E-05	7.583E-05			



D	6.0	1.19	414.	0.	0.	34.0	15.8	34.0	9.879E-05	6.317E-05	6.317E-05
D	8.0	0.99	414.	0.	0.	34.0	15.8	34.0	7.419E-05	4.736E-05	4.736E-05
D	10.0	0.13	414.	0.	0.	34.0	15.8	34.0	5.936E-05	3.790E-05	3.790E-05
D	24.5	0.02	414.	0.	0.	34.0	15.8	34.0	2.415E-05	1.541E-05	1.541E-05
E	0.4	0.10	414.	0.	0.	24.2	11.2	72.5	9.441E-04	1.336E-03	9.441E-04
E	0.5	0.04	414.	0.	0.	24.2	11.2	72.5	7.839E-04	1.109E-03	7.839E-04
E	0.7	0.31	414.	0.	0.	24.2	11.2	72.5	5.226E-04	7.393E-04	5.226E-04
E	1.0	0.86	414.	0.	0.	24.2	11.2	72.5	3.920E-04	5.545E-04	3.920E-04
E	1.2	0.92	414.	0.	0.	24.2	11.2	72.5	3.136E-04	4.436E-04	3.136E-04
E	1.5	1.45	414.	0.	0.	24.2	11.2	72.5	2.613E-04	3.697E-04	2.613E-04
E	2.0	2.95	414.	0.	0.	24.2	11.2	72.5	1.964E-04	2.779E-04	1.964E-04
E	3.0	8.67	414.	0.	0.	24.2	11.2	48.6	1.953E-04	1.851E-04	1.851E-04
E	4.0	4.60	414.	0.	0.	24.2	11.2	36.4	1.953E-04	1.388E-04	1.388E-04
E	5.0	2.47	414.	0.	0.	24.2	11.2	29.1	1.953E-04	1.111E-04	1.111E-04
E	6.0	0.75	414.	0.	0.	24.2	11.2	24.3	1.953E-04	9.255E-05	9.255E-05
E	8.0	0.64	414.	0.	0.	24.2	11.2	24.2	1.471E-04	6.939E-05	6.939E-05
E	10.0	0.07	414.	0.	0.	24.2	11.2	24.2	1.177E-04	5.552E-05	5.552E-05
F	0.4	0.23	414.	0.	0.	16.7	7.1	66.7	1.629E-03	2.172E-03	1.629E-03
F	0.5	0.04	414.	0.	0.	16.7	7.1	66.7	1.353E-03	1.804E-03	1.353E-03
F	0.7	0.44	414.	0.	0.	16.7	7.1	66.7	9.020E-04	1.203E-03	9.020E-04
F	1.0	1.14	414.	0.	0.	16.7	7.1	66.7	6.765E-04	9.019E-04	6.765E-04
F	1.2	1.17	414.	0.	0.	16.7	7.1	66.7	5.412E-04	7.215E-04	5.412E-04
F	1.5	2.07	414.	0.	0.	16.7	7.1	66.7	4.510E-04	6.013E-04	4.510E-04
F	2.0	3.46	414.	0.	0.	16.7	7.1	66.7	3.390E-04	4.520E-04	3.390E-04
F	3.0	4.89	414.	0.	0.	16.7	7.1	40.2	3.743E-04	3.011E-04	3.011E-04
F	4.0	0.68	414.	0.	0.	16.7	7.1	28.0	4.036E-04	2.257E-04	2.257E-04
F	5.0	0.15	414.	0.	0.	16.7	7.1	21.1	4.278E-04	1.807E-04	1.807E-04
F	6.0	0.07	414.	0.	0.	16.7	7.1	16.8	4.488E-04	1.505E-04	1.505E-04
F	8.0	0.07	414.	0.	0.	16.7	7.1	16.7	3.386E-04	1.129E-04	1.129E-04
G	0.4	1.18	414.	0.	0.	11.5	4.5	69.0	2.500E-03	4.999E-03	2.500E-03
G	0.5	0.70	414.	0.	0.	11.5	4.5	69.0	2.076E-03	4.151E-03	2.076E-03
G	0.7	2.51	414.	0.	0.	11.5	4.5	69.0	1.384E-03	2.768E-03	1.384E-03
G	1.0	3.92	414.	0.	0.	11.5	4.5	69.0	1.038E-03	2.076E-03	1.038E-03
G	1.2	4.69	414.	0.	0.	11.5	4.5	69.0	8.303E-04	1.661E-03	8.303E-04
G	1.5	6.98	414.	0.	0.	11.5	4.5	69.0	6.920E-04	1.384E-03	6.920E-04
G	2.0	8.08	414.	0.	0.	11.5	4.5	69.0	5.201E-04	1.040E-03	5.201E-04
G	3.0	2.64	414.	0.	0.	11.5	4.5	35.9	6.657E-04	6.929E-04	6.657E-04
G	4.0	0.02	414.	0.	0.	11.5	4.5	22.5	7.984E-04	5.195E-04	5.195E-04
G	5.0	0.07	414.	0.	0.	11.5	4.5	15.6	9.187E-04	4.159E-04	4.159E-04
G	6.0	0.04	414.	0.	0.	11.5	4.5	11.6	1.031E-03	3.465E-04	3.465E-04
G	8.0	0.02	414.	0.	0.	11.5	4.5	11.5	7.793E-04	2.597E-04	2.597E-04



10.75935

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)= 0.202  
 HANDCHECK GRAPH: SLOPE LT -1.0 FOR LOW PERCENTAGES. XSAVE ( 3)= 1.485  
 HANDCHECK GRAPH: SLOPE LT -1.0 FOR LOW PERCENTAGES. XSAVE ( 5)= 3.680  
 HANDCHECK GRAPH: SLOPE LT -1.0 FOR LOW PERCENTAGES. XSAVE ( 6)= 5.018  
 HANDCHECK GRAPH: SLOPE LT -1.0 FOR LOW PERCENTAGES. XSAVE ( 7)= 6.662  
 HANDCHECK GRAPH: SLOPE LT -1.0 FOR LOW PERCENTAGES. XSAVE ( 8)= 7.636  
 HANDCHECK GRAPH: SLOPE LT -1.0 FOR LOW PERCENTAGES. XSAVE ( 9)= 8.358

K	I	XQSAVE(K, I)	XQINT(K, I)	XQSLOP(K, I)
13	1	-5.99148	-9.86357	-1.28235
13	2	-6.17738	-9.93817	-1.30830
13	3	-7.09367	-9.10126	-0.92337
13	4	-7.31468	-10.58957	-1.69258
13	5	-7.56144	-14.26164	-3.74510
13	6	-8.10810	-13.75165	-3.43472
13	7	-8.59460	-16.62133	-5.34599
13	8	-8.97649	-18.12454	-6.39718
13	9	-9.28775	NUMXQ(K)= 9	

BACK EXTRAPOLATION FOR 1 PERCENTILE.

2.663E-03	0.108	1.000
1.705E-03	0.323	3.000
1.359E-03	0.538	5.000
9.779E-04	1.076	10.000
8.056E-04	1.614	15.000
7.227E-04	2.152	20.000
6.590E-04	2.690	25.000
5.754E-04	3.228	30.000
5.008E-04	3.766	35.000
3.969E-04	4.304	40.000
3.217E-04	4.842	45.000
2.682E-04	5.380	50.000
2.279E-04	5.918	55.000
1.959E-04	6.456	60.000
1.620E-04	6.994	65.000
1.316E-04	7.532	70.000
1.047E-04	8.070	75.000
1.405E-03	0.5	4.65

ANNUAL AVERAGE = 3.00E-05

K= 13 FIVEXQ(K)= 1.405E-03 FIVEPR(K)= 4.647

USNRC COMPUTER CODE-PAVAN, VERSION 2.0

RUN DATE: 03/07/07

PLANT NAME: Oyster Creek  
 DATA PERIOD:  
 TYPE OF RELEASE: Ground Release  
 SOURCE OF DATA:  
 COMMENTS: Oyster Creek, Ground Release, 1995-1999 met data  
 PROGRAM: PAVAN, 10/76, 8/79 REVISION, IMPLEMENTATION OF REGULATORY GUIDE 1.145

METEOROLOGICAL INSTRUMENTATION  
 WIND SENSORS HEIGHT: Ground  
 DELTA-T HEIGHTS: 10.1-45.7 meters

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

CLASS	METER/SEC	PERCENT	METERS	METERS	METERS	SIGMA-Y METERS	SIGMA-Z METERS	MEANDER-SY METERS	** CHI/Q VALUES (SEC/CUBIC METER)		
									MEANDER	BLDG WAKE	USED
AT 10.0 METERS									CA= 957.SQ.METERS		
A	0.4	0.00	414.	0.	0.	84.5	88.5	84.5	1.026E-04	9.862E-05	9.862E-05
A	1.0	0.06	414.	0.	0.	84.5	88.5	84.5	4.261E-05	4.094E-05	4.094E-05
A	1.2	0.13	414.	0.	0.	84.5	88.5	84.5	3.409E-05	3.275E-05	3.275E-05
A	1.5	0.19	414.	0.	0.	84.5	88.5	84.5	2.841E-05	2.730E-05	2.730E-05
A	2.0	0.45	414.	0.	0.	84.5	88.5	84.5	2.135E-05	2.052E-05	2.052E-05
A	3.0	1.53	414.	0.	0.	84.5	88.5	84.5	1.422E-05	1.367E-05	1.367E-05
A	4.0	2.72	414.	0.	0.	84.5	88.5	84.5	1.066E-05	1.025E-05	1.025E-05
A	5.0	3.87	414.	0.	0.	84.5	88.5	84.5	8.537E-06	8.203E-06	8.203E-06
A	6.0	4.75	414.	0.	0.	84.5	88.5	84.5	7.112E-06	6.834E-06	6.834E-06
A	8.0	3.56	414.	0.	0.	84.5	88.5	84.5	5.332E-06	5.124E-06	5.124E-06
A	10.0	0.37	414.	0.	0.	84.5	88.5	84.5	4.267E-06	4.100E-06	4.100E-06
A	24.5	0.13	414.	0.	0.	84.5	88.5	84.5	1.735E-06	1.667E-06	1.667E-06
B	1.5	0.04	414.	0.	0.	63.5	42.1	63.5	7.942E-05	7.130E-05	7.130E-05
B	2.0	0.26	414.	0.	0.	63.5	42.1	63.5	5.969E-05	5.360E-05	5.360E-05
B	3.0	0.73	414.	0.	0.	63.5	42.1	63.5	3.977E-05	3.570E-05	3.570E-05
B	4.0	1.36	414.	0.	0.	63.5	42.1	63.5	2.981E-05	2.677E-05	2.677E-05
B	5.0	0.95	414.	0.	0.	63.5	42.1	63.5	2.387E-05	2.143E-05	2.143E-05
B	6.0	0.82	414.	0.	0.	63.5	42.1	63.5	1.988E-05	1.785E-05	1.785E-05
B	8.0	0.97	414.	0.	0.	63.5	42.1	63.5	1.491E-05	1.338E-05	1.338E-05
B	10.0	0.13	414.	0.	0.	63.5	42.1	63.5	1.193E-05	1.071E-05	1.071E-05
B	24.5	0.06	414.	0.	0.	63.5	42.1	63.5	4.852E-06	4.356E-06	4.356E-06
C	1.0	0.02	414.	0.	0.	48.2	27.4	48.2	2.414E-04	1.962E-04	1.962E-04
C	1.5	0.09	414.	0.	0.	48.2	27.4	48.2	1.610E-04	1.308E-04	1.308E-04
C	2.0	0.15	414.	0.	0.	48.2	27.4	48.2	1.210E-04	9.831E-05	9.831E-05
C	3.0	0.45	414.	0.	0.	48.2	27.4	48.2	8.060E-05	6.549E-05	6.549E-05
C	4.0	0.56	414.	0.	0.	48.2	27.4	48.2	6.043E-05	4.910E-05	4.910E-05
C	5.0	0.43	414.	0.	0.	48.2	27.4	48.2	4.838E-05	3.931E-05	3.931E-05
C	6.0	0.45	414.	0.	0.	48.2	27.4	48.2	4.030E-05	3.275E-05	3.275E-05
C	8.0	0.43	414.	0.	0.	48.2	27.4	48.2	3.021E-05	2.455E-05	2.455E-05
C	10.0	0.11	414.	0.	0.	48.2	27.4	48.2	2.418E-05	1.965E-05	1.965E-05
D	0.4	0.04	414.	0.	0.	34.0	15.8	67.9	7.140E-04	9.116E-04	7.140E-04
D	0.7	0.19	414.	0.	0.	34.0	15.8	67.9	3.952E-04	5.046E-04	3.952E-04
D	1.0	0.17	414.	0.	0.	34.0	15.8	67.9	2.964E-04	3.785E-04	2.964E-04
D	1.2	0.48	414.	0.	0.	34.0	15.8	67.9	2.371E-04	3.028E-04	2.371E-04
D	1.5	0.84	414.	0.	0.	34.0	15.8	67.9	1.976E-04	2.523E-04	1.976E-04
D	2.0	1.10	414.	0.	0.	34.0	15.8	67.9	1.485E-04	1.897E-04	1.485E-04
D	3.0	3.22	414.	0.	0.	34.0	15.8	52.7	1.276E-04	1.263E-04	1.263E-04
D	4.0	3.48	414.	0.	0.	34.0	15.8	43.9	1.147E-04	9.472E-05	9.472E-05
D	5.0	2.92	414.	0.	0.	34.0	15.8	38.2	1.057E-04	7.583E-05	7.583E-05
D	6.0	2.38	414.	0.	0.	34.0	15.8	34.0	9.879E-05	6.317E-05	6.317E-05

D	8.0	2.09	414.	0.	0.	34.0	15.8	34.0	7.419E-05	4.736E-05	4.736E-05
D	10.0	0.37	414.	0.	0.	34.0	15.8	34.0	5.936E-05	3.790E-05	3.790E-05
D	24.5	0.02	414.	0.	0.	34.0	15.8	34.0	2.415E-05	1.541E-05	1.541E-05
E	0.4	0.09	414.	0.	0.	24.2	11.2	72.5	9.441E-04	1.336E-03	9.441E-04
E	0.5	0.13	414.	0.	0.	24.2	11.2	72.5	7.839E-04	1.109E-03	7.839E-04
E	0.7	0.28	414.	0.	0.	24.2	11.2	72.5	5.226E-04	7.393E-04	5.226E-04
E	1.0	0.71	414.	0.	0.	24.2	11.2	72.5	3.920E-04	5.545E-04	3.920E-04
E	1.2	0.86	414.	0.	0.	24.2	11.2	72.5	3.136E-04	4.436E-04	3.136E-04
E	1.5	1.21	414.	0.	0.	24.2	11.2	72.5	2.613E-04	3.697E-04	2.613E-04
E	2.0	3.20	414.	0.	0.	24.2	11.2	72.5	1.964E-04	2.779E-04	1.964E-04
E	3.0	8.21	414.	0.	0.	24.2	11.2	48.6	1.953E-04	1.851E-04	1.851E-04
E	4.0	6.22	414.	0.	0.	24.2	11.2	36.4	1.953E-04	1.388E-04	1.388E-04
E	5.0	4.47	414.	0.	0.	24.2	11.2	29.1	1.953E-04	1.111E-04	1.111E-04
E	6.0	2.63	414.	0.	0.	24.2	11.2	24.3	1.953E-04	9.255E-05	9.255E-05
E	8.0	1.34	414.	0.	0.	24.2	11.2	24.2	1.471E-04	6.939E-05	6.939E-05
E	10.0	0.24	414.	0.	0.	24.2	11.2	24.2	1.177E-04	5.552E-05	5.552E-05
F	0.4	0.18	414.	0.	0.	16.7	7.1	66.7	1.629E-03	2.172E-03	1.629E-03
F	0.5	0.09	414.	0.	0.	16.7	7.1	66.7	1.353E-03	1.804E-03	1.353E-03
F	0.7	0.37	414.	0.	0.	16.7	7.1	66.7	9.020E-04	1.203E-03	9.020E-04
F	1.0	0.86	414.	0.	0.	16.7	7.1	66.7	6.765E-04	9.019E-04	6.765E-04
F	1.2	0.89	414.	0.	0.	16.7	7.1	66.7	5.412E-04	7.215E-04	5.412E-04
F	1.5	1.21	414.	0.	0.	16.7	7.1	66.7	4.510E-04	6.013E-04	4.510E-04
F	2.0	3.13	414.	0.	0.	16.7	7.1	66.7	3.390E-04	4.520E-04	3.390E-04
F	3.0	3.69	414.	0.	0.	16.7	7.1	40.2	3.743E-04	3.011E-04	3.011E-04
F	4.0	0.54	414.	0.	0.	16.7	7.1	28.0	4.036E-04	2.257E-04	2.257E-04
F	5.0	0.22	414.	0.	0.	16.7	7.1	21.1	4.278E-04	1.807E-04	1.807E-04
F	6.0	0.09	414.	0.	0.	16.7	7.1	16.8	4.488E-04	1.505E-04	1.505E-04
F	8.0	0.13	414.	0.	0.	16.7	7.1	16.7	3.386E-04	1.129E-04	1.129E-04
G	0.4	0.82	414.	0.	0.	11.5	4.5	69.0	2.500E-03	4.999E-03	2.500E-03
G	0.5	0.50	414.	0.	0.	11.5	4.5	69.0	2.076E-03	4.151E-03	2.076E-03
G	0.7	2.07	414.	0.	0.	11.5	4.5	69.0	1.384E-03	2.768E-03	1.384E-03
G	1.0	2.96	414.	0.	0.	11.5	4.5	69.0	1.038E-03	2.076E-03	1.038E-03
G	1.2	2.66	414.	0.	0.	11.5	4.5	69.0	8.303E-04	1.661E-03	8.303E-04
G	1.5	3.15	414.	0.	0.	11.5	4.5	69.0	6.920E-04	1.384E-03	6.920E-04
G	2.0	2.57	414.	0.	0.	11.5	4.5	69.0	5.201E-04	1.040E-03	5.201E-04
G	3.0	0.95	414.	0.	0.	11.5	4.5	35.9	6.657E-04	6.929E-04	6.657E-04
G	4.0	0.09	414.	0.	0.	11.5	4.5	22.5	7.984E-04	5.195E-04	5.195E-04
G	5.0	0.06	414.	0.	0.	11.5	4.5	15.6	9.187E-04	4.159E-04	4.159E-04
G	6.0	0.09	414.	0.	0.	11.5	4.5	11.6	1.031E-03	3.465E-04	3.465E-04

USNRC COMPUTER CODE-PAVAN, VERSION 2.0

RUN DATE: 03/07/07

PLANT NAME: Oyster Creek

METEOROLOGICAL INSTRUMENTATION

DATA PERIOD:

WIND SENSORS HEIGHT: Ground

TYPE OF RELEASE: Ground Release

DELTA-T HEIGHTS: 10.1-45.7 meters

SOURCE OF DATA:

COMMENTS: Oyster Creek, Ground Release, 1995-1999 met data

PROGRAM: PAVAN, 10/76, 8/79 REVISION, IMPLEMENTATION OF REGULATORY GUIDE 1.145

SITE EXCLUSION BOUNDARY CALCULATIONS:

ESE SECTOR BOUNDARY DISTANCE = 414.0 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= 1913. D= 44.8

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.

2.500E-03	2.076E-03	1.629E-03	1.384E-03	1.353E-03	1.038E-03	9.441E-04	9.020E-04	8.303E-04	7.839E-04
0.815	1.312	1.493	3.567	3.653	6.612	6.703	7.070	9.727	9.856
0.08943	0.14391	0.16380	0.39121	0.40068	0.72521	0.73521	0.77548	1.06685	1.08106
7.140E-04	6.920E-04	6.765E-04	6.657E-04	5.412E-04	5.226E-04	5.201E-04	5.195E-04	4.510E-04	4.159E-04
9.892	13.045	13.909	14.859	15.745	16.025	18.595	18.682	19.891	19.956
1.08494	1.43079	1.52554	1.62977	1.72689	1.75768	2.03957	2.04905	2.18170	2.18881
3.952E-04	3.920E-04	3.465E-04	3.390E-04	3.136E-04	3.011E-04	2.964E-04	2.613E-04	2.371E-04	2.257E-04
20.150	20.863	20.949	24.081	24.945	28.638	28.811	30.020	30.495	31.035
2.21013	2.28830	2.29778	2.64126	2.73601	3.14108	3.16003	3.29268	3.34480	3.40402
1.976E-04	1.964E-04	1.962E-04	1.851E-04	1.807E-04	1.505E-04	1.485E-04	1.388E-04	1.308E-04	1.263E-04
31.878	35.074	35.096	43.303	43.519	43.605	44.706	50.926	51.013	54.231
3.49640	3.84699	3.84936	4.74951	4.77320	4.78267	4.90348	5.58571	5.59518	5.94814
1.129E-04	1.111E-04	9.862E-05	9.831E-05	9.472E-05	9.255E-05	7.583E-05	7.130E-05	6.939E-05	6.549E-05
54.360	58.831	58.836	58.987	62.464	65.099	68.014	68.058	69.397	69.850
5.96235	6.45270	6.45319	6.46977	6.85116	7.14015	7.45994	7.46468	7.61155	7.66129
6.317E-05	5.552E-05	5.360E-05	4.910E-05	4.736E-05	4.094E-05	3.931E-05	3.790E-05	3.570E-05	3.275E-05
72.226	72.463	72.723	73.284	75.379	75.444	75.876	76.243	76.977	77.107
7.92187	7.94792	7.97635	8.03794	8.26772	8.27482	8.32220	8.36247	8.44301	8.45722
3.275E-05	2.730E-05	2.677E-05	2.455E-05	2.143E-05	2.052E-05	1.965E-05	1.785E-05	1.541E-05	1.367E-05
77.560	77.755	79.115	79.547	80.498	80.951	81.059	81.880	81.902	83.435
8.50697	8.52829	8.67752	8.72490	8.82913	8.87887	8.89072	8.98073	8.98310	9.15129
1.338E-05	1.071E-05	1.025E-05	8.203E-06	6.834E-06	5.124E-06	4.356E-06	4.100E-06	1.667E-06	
84.407	84.536	87.258	91.124	95.875	99.438	99.503	99.870	100.000	
9.25788	9.27210	9.57057	9.99459	10.51573	10.90659	10.91369	10.95397	10.96818	

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)= 0.391  
HANDCHECK GRAPH: SLOPE LT -1.0 FOR LOW PERCENTAGES. XSAVE ( 3)= 0.724  
HANDCHECK GRAPH: SLOPE LT -1.0 FOR LOW PERCENTAGES. XSAVE ( 4)= 1.628  
HANDCHECK GRAPH: SLOPE LT -1.0 FOR LOW PERCENTAGES. XSAVE ( 5)= 2.047  
HANDCHECK GRAPH: SLOPE LT -1.0 FOR LOW PERCENTAGES. XSAVE ( 6)= 3.138  
HANDCHECK GRAPH: SLOPE LT -1.0 FOR LOW PERCENTAGES. XSAVE ( 7)= 4.746  
HANDCHECK GRAPH: SLOPE LT -1.0 FOR LOW PERCENTAGES. XSAVE ( 8)= 6.449  
HANDCHECK GRAPH: SLOPE LT -1.0 FOR LOW PERCENTAGES. XSAVE ( 9)= 7.136

K	I	XQSAVE(K, I)	XQINT(K, I)	XQSLOP(K, I)
14	1	-5.99148	-9.97598	-1.27564
14	2	-6.58285	-10.14194	-1.33803
14	3	-6.87053	-10.40225	-1.44450
14	4	-7.31468	-12.99503	-2.65750
14	5	-7.56266	-13.64558	-2.97575
14	6	-8.10810	-12.85151	-2.54903
14	7	-8.59460	-14.20896	-3.36188
14	8	-9.10513	-14.39243	-3.48272
14	9	-9.28775		
			NUMXQ(K)= 9	
		2.314E-03	0.110	1.000
		1.490E-03	0.329	3.000
		1.185E-03	0.548	5.000
		8.321E-04	1.097	10.000
		6.590E-04	1.645	15.000
		4.774E-04	2.194	20.000
		3.596E-04	2.742	25.000
		2.856E-04	3.290	30.000
		2.389E-04	3.839	35.000
		2.038E-04	4.387	40.000
		1.739E-04	4.936	45.000
		1.463E-04	5.484	50.000
		1.246E-04	6.032	55.000
		1.073E-04	6.581	60.000
		9.281E-05	7.129	65.000
		1.237E-03	0.5	4.56

ANNUAL AVERAGE = 2.15E-05

K= 14 FIVEXQ(K)= 1.237E-03 FIVEPR(K)= 4.559

USNRC COMPUTER CODE-PAVAN, VERSION 2.0

RUN DATE: 03/07/07

PLANT NAME: Oyster Creek

METEOROLOGICAL INSTRUMENTATION

DATA PERIOD:

WIND SENSORS HEIGHT: Ground

TYPE OF RELEASE: Ground Release

DELTA-T HEIGHTS: 10.1-45.7 meters

SOURCE OF DATA:

COMMENTS: Oyster Creek, Ground Release, 1995-1999 met data

PROGRAM: PAVAN, 10/76, 8/79 REVISION, IMPLEMENTATION OF REGULATORY GUIDE 1.145

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

CLASS	METER/SEC	PERCENT	DISTANCE METERS	TERRAIN METERS	HT METERS	EFF METERS	PLUME HT METERS	SIGMA-Y METERS	SIGMA-Z METERS	MEANDER-SY METERS	** CHI/Q VALUES (SEC/CUBIC METER)		
											MEANDER	BLDG WAKE	USED
AT 10.0 METERS											CA= 957.SQ.METERS		
A	0.4	0.00	414.	0.	0.			84.5	88.5	84.5	1.026E-04	9.862E-05	9.862E-05
A	1.2	0.05	414.	0.	0.			84.5	88.5	84.5	3.409E-05	3.275E-05	3.275E-05
A	1.5	0.18	414.	0.	0.			84.5	88.5	84.5	2.841E-05	2.730E-05	2.730E-05
A	2.0	0.74	414.	0.	0.			84.5	88.5	84.5	2.135E-05	2.052E-05	2.052E-05
A	3.0	1.53	414.	0.	0.			84.5	88.5	84.5	1.422E-05	1.367E-05	1.367E-05
A	4.0	3.29	414.	0.	0.			84.5	88.5	84.5	1.066E-05	1.025E-05	1.025E-05
A	5.0	4.89	414.	0.	0.			84.5	88.5	84.5	8.537E-06	8.203E-06	8.203E-06
A	6.0	3.67	414.	0.	0.			84.5	88.5	84.5	7.112E-06	6.834E-06	6.834E-06
A	8.0	3.16	414.	0.	0.			84.5	88.5	84.5	5.332E-06	5.124E-06	5.124E-06
A	10.0	0.23	414.	0.	0.			84.5	88.5	84.5	4.267E-06	4.100E-06	4.100E-06
A	24.5	0.07	414.	0.	0.			84.5	88.5	84.5	1.735E-06	1.667E-06	1.667E-06
B	0.7	0.02	414.	0.	0.			63.5	42.1	63.5	1.588E-04	1.426E-04	1.426E-04
B	1.2	0.11	414.	0.	0.			63.5	42.1	63.5	9.530E-05	8.556E-05	8.556E-05
B	1.5	0.09	414.	0.	0.			63.5	42.1	63.5	7.942E-05	7.130E-05	7.130E-05
B	2.0	0.23	414.	0.	0.			63.5	42.1	63.5	5.969E-05	5.360E-05	5.360E-05
B	3.0	1.06	414.	0.	0.			63.5	42.1	63.5	3.977E-05	3.570E-05	3.570E-05
B	4.0	1.17	414.	0.	0.			63.5	42.1	63.5	2.981E-05	2.677E-05	2.677E-05
B	5.0	1.04	414.	0.	0.			63.5	42.1	63.5	2.387E-05	2.143E-05	2.143E-05
B	6.0	0.63	414.	0.	0.			63.5	42.1	63.5	1.988E-05	1.785E-05	1.785E-05
B	8.0	0.77	414.	0.	0.			63.5	42.1	63.5	1.491E-05	1.338E-05	1.338E-05
B	10.0	0.07	414.	0.	0.			63.5	42.1	63.5	1.193E-05	1.071E-05	1.071E-05
C	0.7	0.02	414.	0.	0.			48.2	27.4	48.2	3.219E-04	2.616E-04	2.616E-04
C	1.2	0.02	414.	0.	0.			48.2	27.4	48.2	1.932E-04	1.570E-04	1.570E-04
C	1.5	0.05	414.	0.	0.			48.2	27.4	48.2	1.610E-04	1.308E-04	1.308E-04
C	2.0	0.23	414.	0.	0.			48.2	27.4	48.2	1.210E-04	9.831E-05	9.831E-05
C	3.0	0.65	414.	0.	0.			48.2	27.4	48.2	8.060E-05	6.549E-05	6.549E-05
C	4.0	0.47	414.	0.	0.			48.2	27.4	48.2	6.043E-05	4.910E-05	4.910E-05
C	5.0	0.38	414.	0.	0.			48.2	27.4	48.2	4.838E-05	3.931E-05	3.931E-05
C	6.0	0.20	414.	0.	0.			48.2	27.4	48.2	4.030E-05	3.275E-05	3.275E-05
C	8.0	0.32	414.	0.	0.			48.2	27.4	48.2	3.021E-05	2.455E-05	2.455E-05
C	10.0	0.07	414.	0.	0.			48.2	27.4	48.2	2.418E-05	1.965E-05	1.965E-05
C	24.5	0.02	414.	0.	0.			48.2	27.4	48.2	9.833E-06	7.990E-06	7.990E-06
D	0.4	0.04	414.	0.	0.			34.0	15.8	67.9	7.140E-04	9.116E-04	7.140E-04
D	0.5	0.11	414.	0.	0.			34.0	15.8	67.9	5.928E-04	7.569E-04	5.928E-04
D	0.7	0.11	414.	0.	0.			34.0	15.8	67.9	3.952E-04	5.046E-04	3.952E-04
D	1.0	0.25	414.	0.	0.			34.0	15.8	67.9	2.964E-04	3.785E-04	2.964E-04
D	1.2	0.45	414.	0.	0.			34.0	15.8	67.9	2.371E-04	3.028E-04	2.371E-04
D	1.5	0.59	414.	0.	0.			34.0	15.8	67.9	1.976E-04	2.523E-04	1.976E-04
D	2.0	2.01	414.	0.	0.			34.0	15.8	67.9	1.485E-04	1.897E-04	1.485E-04
D	3.0	4.89	414.	0.	0.			34.0	15.8	52.7	1.276E-04	1.263E-04	1.263E-04



D	4.0	4.04	414.	0.	0.	34.0	15.8	43.9	1.147E-04	9.472E-05	9.472E-05
D	5.0	2.80	414.	0.	0.	34.0	15.8	38.2	1.057E-04	7.583E-05	7.583E-05
D	6.0	2.03	414.	0.	0.	34.0	15.8	34.0	9.879E-05	6.317E-05	6.317E-05
D	8.0	1.47	414.	0.	0.	34.0	15.8	34.0	7.419E-05	4.736E-05	4.736E-05
D	10.0	0.23	414.	0.	0.	34.0	15.8	34.0	5.936E-05	3.790E-05	3.790E-05
E	0.4	0.12	414.	0.	0.	24.2	11.2	72.5	9.441E-04	1.336E-03	9.441E-04
E	0.5	0.09	414.	0.	0.	24.2	11.2	72.5	7.839E-04	1.109E-03	7.839E-04
E	0.7	0.38	414.	0.	0.	24.2	11.2	72.5	5.226E-04	7.393E-04	5.226E-04
E	1.0	1.06	414.	0.	0.	24.2	11.2	72.5	3.920E-04	5.545E-04	3.920E-04
E	1.2	1.15	414.	0.	0.	24.2	11.2	72.5	3.136E-04	4.436E-04	3.136E-04
E	1.5	1.74	414.	0.	0.	24.2	11.2	72.5	2.613E-04	3.697E-04	2.613E-04
E	2.0	3.47	414.	0.	0.	24.2	11.2	72.5	1.964E-04	2.779E-04	1.964E-04
E	3.0	8.73	414.	0.	0.	24.2	11.2	48.6	1.953E-04	1.851E-04	1.851E-04
E	4.0	5.39	414.	0.	0.	24.2	11.2	36.4	1.953E-04	1.388E-04	1.388E-04
E	5.0	3.13	414.	0.	0.	24.2	11.2	29.1	1.953E-04	1.111E-04	1.111E-04
E	6.0	2.12	414.	0.	0.	24.2	11.2	24.3	1.953E-04	9.255E-05	9.255E-05
E	8.0	0.83	414.	0.	0.	24.2	11.2	24.2	1.471E-04	6.939E-05	6.939E-05
E	10.0	0.05	414.	0.	0.	24.2	11.2	24.2	1.177E-04	5.552E-05	5.552E-05
E	24.5	0.02	414.	0.	0.	24.2	11.2	24.2	4.789E-05	2.258E-05	2.258E-05
F	0.4	0.20	414.	0.	0.	16.7	7.1	66.7	1.629E-03	2.172E-03	1.629E-03
F	0.5	0.05	414.	0.	0.	16.7	7.1	66.7	1.353E-03	1.804E-03	1.353E-03
F	0.7	0.36	414.	0.	0.	16.7	7.1	66.7	9.020E-04	1.203E-03	9.020E-04
F	1.0	1.10	414.	0.	0.	16.7	7.1	66.7	6.765E-04	9.019E-04	6.765E-04
F	1.2	0.92	414.	0.	0.	16.7	7.1	66.7	5.412E-04	7.215E-04	5.412E-04
F	1.5	1.19	414.	0.	0.	16.7	7.1	66.7	4.510E-04	6.013E-04	4.510E-04
F	2.0	3.67	414.	0.	0.	16.7	7.1	66.7	3.390E-04	4.520E-04	3.390E-04
F	3.0	3.99	414.	0.	0.	16.7	7.1	40.2	3.743E-04	3.011E-04	3.011E-04
F	4.0	0.50	414.	0.	0.	16.7	7.1	28.0	4.036E-04	2.257E-04	2.257E-04
F	5.0	0.11	414.	0.	0.	16.7	7.1	21.1	4.278E-04	1.807E-04	1.807E-04
F	8.0	0.07	414.	0.	0.	16.7	7.1	16.7	3.386E-04	1.129E-04	1.129E-04
G	0.4	0.68	414.	0.	0.	11.5	4.5	69.0	2.500E-03	4.999E-03	2.500E-03
G	0.5	0.68	414.	0.	0.	11.5	4.5	69.0	2.076E-03	4.151E-03	2.076E-03
G	0.7	1.78	414.	0.	0.	11.5	4.5	69.0	1.384E-03	2.768E-03	1.384E-03
G	1.0	2.28	414.	0.	0.	11.5	4.5	69.0	1.038E-03	2.076E-03	1.038E-03
G	1.2	2.12	414.	0.	0.	11.5	4.5	69.0	8.303E-04	1.661E-03	8.303E-04
G	1.5	2.71	414.	0.	0.	11.5	4.5	69.0	6.920E-04	1.384E-03	6.920E-04
G	2.0	3.49	414.	0.	0.	11.5	4.5	69.0	5.201E-04	1.040E-03	5.201E-04
G	3.0	1.26	414.	0.	0.	11.5	4.5	35.9	6.657E-04	6.929E-04	6.657E-04
G	4.0	0.02	414.	0.	0.	11.5	4.5	22.5	7.984E-04	5.195E-04	5.195E-04
G	5.0	0.05	414.	0.	0.	11.5	4.5	15.6	9.187E-04	4.159E-04	4.159E-04
G	6.0	0.02	414.	0.	0.	11.5	4.5	11.6	1.031E-03	3.465E-04	3.465E-04
G	10.0	0.02	414.	0.	0.	11.5	4.5	11.5	6.236E-04	2.078E-04	2.078E-04



10.49958 10.50669

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)= 0.351  
 HANDCHECK GRAPH: SLOPE LT -1.0 FOR LOW PERCENTAGES. XSAVE ( 4)= 1.281  
 HANDCHECK GRAPH: SLOPE LT -1.0 FOR LOW PERCENTAGES. XSAVE ( 6)= 1.929  
 HANDCHECK GRAPH: SLOPE LT -1.0 FOR LOW PERCENTAGES. XSAVE ( 7)= 1.932  
 HANDCHECK GRAPH: SLOPE LT -1.0 FOR LOW PERCENTAGES. XSAVE ( 8)= 3.113  
 HANDCHECK GRAPH: SLOPE LT -1.0 FOR LOW PERCENTAGES. XSAVE ( 9)= 4.768  
 HANDCHECK GRAPH: SLOPE LT -1.0 FOR LOW PERCENTAGES. XSAVE (10)= 6.080  
 HANDCHECK GRAPH: SLOPE LT -1.0 FOR LOW PERCENTAGES. XSAVE (11)= 7.087

K	I	XQSAVE(K,I)	XQINT(K,I)	XQSLOP(K,I)
15	1	-5.99148	-8.88655	-0.90816
15	2	-6.17738	-10.39387	-1.41344
15	3	-6.58285	-10.73882	-1.54137
15	4	-7.29856	-8.23530	-0.41970
15	5	-7.31468	-11.64581	-1.97449
15	6	-7.56144	-12.56202	-2.41742
15	7	-7.56266	-13.10269	-2.67885
15	8	-8.10810	-12.72009	-2.47365
15	9	-8.59460	-13.91575	-3.19056
15	10	-8.97649	-15.09613	-3.95304
15	11	-9.28775	NUMXQ(K)= 11	
		2.258E-03	0.105	1.000
		1.455E-03	0.315	3.000
		1.120E-03	0.525	5.000
		7.609E-04	1.051	10.000
		6.119E-04	1.576	15.000
		4.738E-04	2.101	20.000
		3.678E-04	2.627	25.000
		2.973E-04	3.152	30.000
		2.503E-04	3.677	35.000
		2.148E-04	4.203	40.000
		1.871E-04	4.728	45.000
		1.595E-04	5.253	50.000
		1.372E-04	5.779	55.000
		1.177E-04	6.304	60.000
		1.000E-04	6.829	65.000
		1.150E-03	0.5	4.76

ANNUAL AVERAGE = 2.03E-05

K= 15 FIVEXQ(K)= 1.150E-03 FIVEPR(K)= 4.759

USNRC COMPUTER CODE-PAVAN, VERSION 2.0

RUN DATE: 03/07/07

PLANT NAME: Oyster Creek

METEOROLOGICAL INSTRUMENTATION

DATA PERIOD:

WIND SENSORS HEIGHT: Ground

TYPE OF RELEASE: Ground Release

DELTA-T HEIGHTS: 10.1-45.7 meters

SOURCE OF DATA:

COMMENTS: Oyster Creek, Ground Release, 1995-1999 met data

PROGRAM: PAVAN, 10/76, 8/79 REVISION, IMPLEMENTATION OF REGULATORY GUIDE 1.145

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

CLASS	METER/SEC AT 10.0 METERS	PERCENT	METERS	METERS	METERS	SIGMA-Y METERS	SIGMA-Z METERS	MEANDER-SY METERS	** CHI/Q VALUES (SEC/CUBIC METER)		
									MEANDER	BLDG WAKE	USED
CA= 957.SQ.METERS											
A	0.4	0.00	414.	0.	0.	84.5	88.5	84.5	1.026E-04	9.862E-05	9.862E-05
A	1.0	0.04	414.	0.	0.	84.5	88.5	84.5	4.261E-05	4.094E-05	4.094E-05
A	1.2	0.04	414.	0.	0.	84.5	88.5	84.5	3.409E-05	3.275E-05	3.275E-05
A	1.5	0.19	414.	0.	0.	84.5	88.5	84.5	2.841E-05	2.730E-05	2.730E-05
A	2.0	0.56	414.	0.	0.	84.5	88.5	84.5	2.135E-05	2.052E-05	2.052E-05
A	3.0	2.17	414.	0.	0.	84.5	88.5	84.5	1.422E-05	1.367E-05	1.367E-05
A	4.0	3.18	414.	0.	0.	84.5	88.5	84.5	1.066E-05	1.025E-05	1.025E-05
A	5.0	2.65	414.	0.	0.	84.5	88.5	84.5	8.537E-06	8.203E-06	8.203E-06
A	6.0	1.94	414.	0.	0.	84.5	88.5	84.5	7.112E-06	6.834E-06	6.834E-06
A	8.0	0.93	414.	0.	0.	84.5	88.5	84.5	5.332E-06	5.124E-06	5.124E-06
A	10.0	0.07	414.	0.	0.	84.5	88.5	84.5	4.267E-06	4.100E-06	4.100E-06
A	24.5	0.04	414.	0.	0.	84.5	88.5	84.5	1.735E-06	1.667E-06	1.667E-06
B	1.2	0.04	414.	0.	0.	63.5	42.1	63.5	9.530E-05	8.556E-05	8.556E-05
B	1.5	0.07	414.	0.	0.	63.5	42.1	63.5	7.942E-05	7.130E-05	7.130E-05
B	2.0	0.11	414.	0.	0.	63.5	42.1	63.5	5.969E-05	5.360E-05	5.360E-05
B	3.0	1.57	414.	0.	0.	63.5	42.1	63.5	3.977E-05	3.570E-05	3.570E-05
B	4.0	1.35	414.	0.	0.	63.5	42.1	63.5	2.981E-05	2.677E-05	2.677E-05
B	5.0	1.23	414.	0.	0.	63.5	42.1	63.5	2.387E-05	2.143E-05	2.143E-05
B	6.0	0.60	414.	0.	0.	63.5	42.1	63.5	1.988E-05	1.785E-05	1.785E-05
B	8.0	0.22	414.	0.	0.	63.5	42.1	63.5	1.491E-05	1.338E-05	1.338E-05
C	1.5	0.07	414.	0.	0.	48.2	27.4	48.2	1.610E-04	1.308E-04	1.308E-04
C	2.0	0.30	414.	0.	0.	48.2	27.4	48.2	1.210E-04	9.831E-05	9.831E-05
C	3.0	0.82	414.	0.	0.	48.2	27.4	48.2	8.060E-05	6.549E-05	6.549E-05
C	4.0	0.79	414.	0.	0.	48.2	27.4	48.2	6.043E-05	4.910E-05	4.910E-05
C	5.0	0.52	414.	0.	0.	48.2	27.4	48.2	4.838E-05	3.931E-05	3.931E-05
C	6.0	0.22	414.	0.	0.	48.2	27.4	48.2	4.030E-05	3.275E-05	3.275E-05
C	8.0	0.11	414.	0.	0.	48.2	27.4	48.2	3.021E-05	2.455E-05	2.455E-05
D	0.4	0.08	414.	0.	0.	34.0	15.8	67.9	7.140E-04	9.116E-04	7.140E-04
D	0.5	0.19	414.	0.	0.	34.0	15.8	67.9	5.928E-04	7.569E-04	5.928E-04
D	0.7	0.19	414.	0.	0.	34.0	15.8	67.9	3.952E-04	5.046E-04	3.952E-04
D	1.0	0.67	414.	0.	0.	34.0	15.8	67.9	2.964E-04	3.785E-04	2.964E-04
D	1.2	0.82	414.	0.	0.	34.0	15.8	67.9	2.371E-04	3.028E-04	2.371E-04
D	1.5	1.01	414.	0.	0.	34.0	15.8	67.9	1.976E-04	2.523E-04	1.976E-04
D	2.0	2.95	414.	0.	0.	34.0	15.8	67.9	1.485E-04	1.897E-04	1.485E-04
D	3.0	7.25	414.	0.	0.	34.0	15.8	52.7	1.276E-04	1.263E-04	1.263E-04
D	4.0	5.05	414.	0.	0.	34.0	15.8	43.9	1.147E-04	9.472E-05	9.472E-05
D	5.0	2.51	414.	0.	0.	34.0	15.8	38.2	1.057E-04	7.583E-05	7.583E-05
D	6.0	1.35	414.	0.	0.	34.0	15.8	34.0	9.879E-05	6.317E-05	6.317E-05
D	8.0	0.97	414.	0.	0.	34.0	15.8	34.0	7.419E-05	4.736E-05	4.736E-05
D	10.0	0.04	414.	0.	0.	34.0	15.8	34.0	5.936E-05	3.790E-05	3.790E-05

E	0.4	0.14	414.	0.	0.	24.2	11.2	72.5	9.441E-04	1.336E-03	9.441E-04
E	0.5	0.11	414.	0.	0.	24.2	11.2	72.5	7.839E-04	1.109E-03	7.839E-04
E	0.7	0.52	414.	0.	0.	24.2	11.2	72.5	5.226E-04	7.393E-04	5.226E-04
E	1.0	1.20	414.	0.	0.	24.2	11.2	72.5	3.920E-04	5.545E-04	3.920E-04
E	1.2	1.16	414.	0.	0.	24.2	11.2	72.5	3.136E-04	4.436E-04	3.136E-04
E	1.5	2.06	414.	0.	0.	24.2	11.2	72.5	2.613E-04	3.697E-04	2.613E-04
E	2.0	4.04	414.	0.	0.	24.2	11.2	72.5	1.964E-04	2.779E-04	1.964E-04
E	3.0	9.72	414.	0.	0.	24.2	11.2	48.6	1.953E-04	1.851E-04	1.851E-04
E	4.0	6.24	414.	0.	0.	24.2	11.2	36.4	1.953E-04	1.388E-04	1.388E-04
E	5.0	2.95	414.	0.	0.	24.2	11.2	29.1	1.953E-04	1.111E-04	1.111E-04
E	6.0	1.42	414.	0.	0.	24.2	11.2	24.3	1.953E-04	9.255E-05	9.255E-05
E	8.0	0.90	414.	0.	0.	24.2	11.2	24.2	1.471E-04	6.939E-05	6.939E-05
E	10.0	0.07	414.	0.	0.	24.2	11.2	24.2	1.177E-04	5.552E-05	5.552E-05
F	0.4	0.18	414.	0.	0.	16.7	7.1	66.7	1.629E-03	2.172E-03	1.629E-03
F	0.5	0.15	414.	0.	0.	16.7	7.1	66.7	1.353E-03	1.804E-03	1.353E-03
F	0.7	0.34	414.	0.	0.	16.7	7.1	66.7	9.020E-04	1.203E-03	9.020E-04
F	1.0	0.97	414.	0.	0.	16.7	7.1	66.7	6.765E-04	9.019E-04	6.765E-04
F	1.2	0.67	414.	0.	0.	16.7	7.1	66.7	5.412E-04	7.215E-04	5.412E-04
F	1.5	1.38	414.	0.	0.	16.7	7.1	66.7	4.510E-04	6.013E-04	4.510E-04
F	2.0	3.18	414.	0.	0.	16.7	7.1	66.7	3.390E-04	4.520E-04	3.390E-04
F	3.0	4.04	414.	0.	0.	16.7	7.1	40.2	3.743E-04	3.011E-04	3.011E-04
F	4.0	0.49	414.	0.	0.	16.7	7.1	28.0	4.036E-04	2.257E-04	2.257E-04
F	5.0	0.15	414.	0.	0.	16.7	7.1	21.1	4.278E-04	1.807E-04	1.807E-04
G	0.4	0.48	414.	0.	0.	11.5	4.5	69.0	2.500E-03	4.999E-03	2.500E-03
G	0.5	0.34	414.	0.	0.	11.5	4.5	69.0	2.076E-03	4.151E-03	2.076E-03
G	0.7	1.20	414.	0.	0.	11.5	4.5	69.0	1.384E-03	2.768E-03	1.384E-03
G	1.0	2.02	414.	0.	0.	11.5	4.5	69.0	1.038E-03	2.076E-03	1.038E-03
G	1.2	1.23	414.	0.	0.	11.5	4.5	69.0	8.303E-04	1.661E-03	8.303E-04
G	1.5	2.24	414.	0.	0.	11.5	4.5	69.0	6.920E-04	1.384E-03	6.920E-04
G	2.0	4.34	414.	0.	0.	11.5	4.5	69.0	5.201E-04	1.040E-03	5.201E-04
G	3.0	2.99	414.	0.	0.	11.5	4.5	35.9	6.657E-04	6.929E-04	6.657E-04
G	4.0	0.15	414.	0.	0.	11.5	4.5	22.5	7.984E-04	5.195E-04	5.195E-04

USNRC COMPUTER CODE-PAVAN, VERSION 2.0

RUN DATE: 03/07/07

PLANT NAME: Oyster Creek

METEOROLOGICAL INSTRUMENTATION

DATA PERIOD:

WIND SENSORS HEIGHT: Ground

TYPE OF RELEASE: Ground Release

DELTA-T HEIGHTS: 10.1-45.7 meters

SOURCE OF DATA:

COMMENTS: Oyster Creek, Ground Release, 1995-1999 met data

PROGRAM: PAVAN, 10/76, 8/79 REVISION, IMPLEMENTATION OF REGULATORY GUIDE 1.145

SITE EXCLUSION BOUNDARY CALCULATIONS:

SSE SECTOR      BOUNDARY DISTANCE = 414.0 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= 1913.      D= 44.8

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.

2.500E-03	2.076E-03	1.629E-03	1.384E-03	1.353E-03	1.038E-03	9.441E-04	9.020E-04	8.303E-04	7.839E-04
0.477	0.813	0.989	2.185	2.335	4.354	4.491	4.828	6.062	6.174
0.03020	0.05152	0.06264	0.13844	0.14791	0.27583	0.28453	0.30585	0.38402	0.39112
7.140E-04	6.920E-04	6.765E-04	6.657E-04	5.928E-04	5.412E-04	5.226E-04	5.201E-04	5.195E-04	4.510E-04
6.253	8.496	9.468	12.460	12.647	13.320	13.843	18.181	18.331	19.714
0.39609	0.53822	0.59981	0.78932	0.80116	0.84380	0.87696	1.15175	1.16122	1.24887
3.952E-04	3.920E-04	3.390E-04	3.136E-04	3.011E-04	2.964E-04	2.613E-04	2.371E-04	2.257E-04	1.976E-04
19.901	21.098	24.276	25.435	29.474	30.147	32.204	33.026	33.512	34.522
1.26071	1.33651	1.53787	1.61130	1.86713	1.90977	2.04006	2.09217	2.12297	2.18692
1.964E-04	1.851E-04	1.807E-04	1.485E-04	1.388E-04	1.308E-04	1.263E-04	1.111E-04	9.862E-05	9.831E-05
38.561	48.283	48.433	51.387	57.631	57.706	64.960	67.915	67.916	68.215
2.44276	3.05865	3.06813	3.25526	3.65086	3.65560	4.11515	4.30229	4.30240	4.32135
9.472E-05	9.255E-05	8.556E-05	7.583E-05	7.130E-05	6.939E-05	6.549E-05	6.317E-05	5.552E-05	5.360E-05
73.264	74.685	74.722	77.227	77.302	78.200	79.022	80.368	80.443	80.555
4.64114	4.73115	4.73352	4.89223	4.89697	4.95382	5.00594	5.09122	5.09595	5.10306
4.910E-05	4.736E-05	4.094E-05	3.931E-05	3.790E-05	3.570E-05	3.275E-05	3.275E-05	2.730E-05	2.677E-05
81.341	82.313	82.350	82.874	82.911	84.482	84.519	84.743	84.930	86.277
5.15281	5.21439	5.21676	5.24993	5.25230	5.35179	5.35416	5.36837	5.38021	5.46549
2.455E-05	2.143E-05	2.052E-05	1.785E-05	1.367E-05	1.338E-05	1.025E-05	8.203E-06	6.834E-06	5.124E-06
86.389	87.623	88.184	88.782	90.951	91.175	94.354	97.009	98.953	99.888
5.47260	5.55077	5.58630	5.62420	5.76159	5.77581	5.97716	6.14534	6.26852	6.32774
4.100E-06	1.667E-06								
99.963	100.000								
6.33248	6.33485								

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)= 0.051  
HANDCHECK GRAPH: SLOPE LT -1.0 FOR LOW PERCENTAGES. XSAVE ( 3)= 0.276  
HANDCHECK GRAPH: SLOPE LT -1.0 FOR LOW PERCENTAGES. XSAVE ( 4)= 0.788  
HANDCHECK GRAPH: SLOPE LT -1.0 FOR LOW PERCENTAGES. XSAVE ( 5)= 1.160  
HANDCHECK GRAPH: SLOPE LT -1.0 FOR LOW PERCENTAGES. XSAVE ( 6)= 1.908  
HANDCHECK GRAPH: SLOPE LT -1.0 FOR LOW PERCENTAGES. XSAVE ( 7)= 3.056  
HANDCHECK GRAPH: SLOPE LT -1.0 FOR LOW PERCENTAGES. XSAVE ( 8)= 4.112  
HANDCHECK GRAPH: SLOPE LT -1.0 FOR LOW PERCENTAGES. XSAVE ( 9)= 4.728

K	I	XQSAVE(K, I)	XQINT(K, I)	XQSLOP(K, I)
16	1	-5.99148	-10.30966	-1.25895
16	2	-6.17738	-10.66715	-1.36787
16	3	-6.87053	-10.28228	-1.22920
16	4	-7.31468	-11.46983	-1.72110
16	5	-7.56266	-14.02907	-2.84843
16	6	-8.12372	-12.99194	-2.34818
16	7	-8.59460	-13.89999	-2.83307
16	8	-8.97649	-17.17265	-4.71623
16	9	-9.28775	NUMXQ(K)= 9	
		1.916E-03	0.063	1.000
		1.221E-03	0.190	3.000
		9.817E-04	0.317	5.000
		7.337E-04	0.633	10.000
		5.918E-04	0.950	15.000
		4.722E-04	1.267	20.000
		3.678E-04	1.584	25.000
		2.981E-04	1.900	30.000
		2.563E-04	2.217	35.000
		2.244E-04	2.534	40.000
		1.991E-04	2.851	45.000
		1.771E-04	3.167	50.000
		1.569E-04	3.484	55.000
		1.402E-04	3.801	60.000
		1.262E-04	4.118	65.000
		1.071E-04	4.434	70.000
		8.124E-04	0.5	7.89

ANNUAL AVERAGE = 1.16E-05

K= 16 FIVEXQ(K)= 8.124E-04 FIVEPR(K)= 7.893

USNRC COMPUTER CODE-PAVAN, VERSION 2.0

RUN DATE: 03/07/07

PLANT NAME: Oyster Creek

METEOROLOGICAL INSTRUMENTATION

DATA PERIOD:

WIND SENSORS HEIGHT: Ground

TYPE OF RELEASE: Ground Release

DELTA-T HEIGHTS: 10.1-45.7 meters

SOURCE OF DATA:

COMMENTS: Oyster Creek, Ground Release, 1995-1999 met data

PROGRAM: PAVAN, 10/76, 8/79 REVISION, IMPLEMENTATION OF REGULATORY GUIDE 1.145

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

CLASS	METER/SEC	PERCENT	DISTANCE METERS	FREQUENCY 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	USED
AT 10.0 METERS												
A	0.4	0.00	414.	0.	0.	0.	84.5	88.5	84.5	1.026E-04	9.862E-05	9.862E-05
A	0.5	0.00	414.	0.	0.	0.	84.5	88.5	84.5	8.522E-05	8.189E-05	8.189E-05
A	0.7	0.01	414.	0.	0.	0.	84.5	88.5	84.5	5.681E-05	5.459E-05	5.459E-05
A	1.0	0.02	414.	0.	0.	0.	84.5	88.5	84.5	4.261E-05	4.094E-05	4.094E-05
A	1.2	0.07	414.	0.	0.	0.	84.5	88.5	84.5	3.409E-05	3.275E-05	3.275E-05
A	1.5	0.22	414.	0.	0.	0.	84.5	88.5	84.5	2.841E-05	2.730E-05	2.730E-05
A	2.0	0.78	414.	0.	0.	0.	84.5	88.5	84.5	2.135E-05	2.052E-05	2.052E-05
A	3.0	2.32	414.	0.	0.	0.	84.5	88.5	84.5	1.422E-05	1.367E-05	1.367E-05
A	4.0	3.89	414.	0.	0.	0.	84.5	88.5	84.5	1.066E-05	1.025E-05	1.025E-05
A	5.0	3.91	414.	0.	0.	0.	84.5	88.5	84.5	8.537E-06	8.203E-06	8.203E-06
A	6.0	2.59	414.	0.	0.	0.	84.5	88.5	84.5	7.112E-06	6.834E-06	6.834E-06
A	8.0	1.71	414.	0.	0.	0.	84.5	88.5	84.5	5.332E-06	5.124E-06	5.124E-06
A	10.0	0.20	414.	0.	0.	0.	84.5	88.5	84.5	4.267E-06	4.100E-06	4.100E-06
A	24.5	0.03	414.	0.	0.	0.	84.5	88.5	84.5	1.735E-06	1.667E-06	1.667E-06
B	0.7	0.01	414.	0.	0.	0.	63.5	42.1	63.5	1.588E-04	1.426E-04	1.426E-04
B	1.0	0.02	414.	0.	0.	0.	63.5	42.1	63.5	1.191E-04	1.070E-04	1.070E-04
B	1.2	0.05	414.	0.	0.	0.	63.5	42.1	63.5	9.530E-05	8.556E-05	8.556E-05
B	1.5	0.14	414.	0.	0.	0.	63.5	42.1	63.5	7.942E-05	7.130E-05	7.130E-05
B	2.0	0.36	414.	0.	0.	0.	63.5	42.1	63.5	5.969E-05	5.360E-05	5.360E-05
B	3.0	1.31	414.	0.	0.	0.	63.5	42.1	63.5	3.977E-05	3.570E-05	3.570E-05
B	4.0	1.43	414.	0.	0.	0.	63.5	42.1	63.5	2.981E-05	2.677E-05	2.677E-05
B	5.0	0.92	414.	0.	0.	0.	63.5	42.1	63.5	2.387E-05	2.143E-05	2.143E-05
B	6.0	0.51	414.	0.	0.	0.	63.5	42.1	63.5	1.988E-05	1.785E-05	1.785E-05
B	8.0	0.44	414.	0.	0.	0.	63.5	42.1	63.5	1.491E-05	1.338E-05	1.338E-05
B	10.0	0.04	414.	0.	0.	0.	63.5	42.1	63.5	1.193E-05	1.071E-05	1.071E-05
B	24.5	0.01	414.	0.	0.	0.	63.5	42.1	63.5	4.852E-06	4.356E-06	4.356E-06
C	0.7	0.01	414.	0.	0.	0.	48.2	27.4	48.2	3.219E-04	2.616E-04	2.616E-04
C	1.0	0.02	414.	0.	0.	0.	48.2	27.4	48.2	2.414E-04	1.962E-04	1.962E-04
C	1.2	0.04	414.	0.	0.	0.	48.2	27.4	48.2	1.932E-04	1.570E-04	1.570E-04
C	1.5	0.09	414.	0.	0.	0.	48.2	27.4	48.2	1.610E-04	1.308E-04	1.308E-04
C	2.0	0.26	414.	0.	0.	0.	48.2	27.4	48.2	1.210E-04	9.831E-05	9.831E-05
C	3.0	0.71	414.	0.	0.	0.	48.2	27.4	48.2	8.060E-05	6.549E-05	6.549E-05
C	4.0	0.67	414.	0.	0.	0.	48.2	27.4	48.2	6.043E-05	4.910E-05	4.910E-05
C	5.0	0.45	414.	0.	0.	0.	48.2	27.4	48.2	4.838E-05	3.931E-05	3.931E-05
C	6.0	0.24	414.	0.	0.	0.	48.2	27.4	48.2	4.030E-05	3.275E-05	3.275E-05
C	8.0	0.19	414.	0.	0.	0.	48.2	27.4	48.2	3.021E-05	2.455E-05	2.455E-05
C	10.0	0.03	414.	0.	0.	0.	48.2	27.4	48.2	2.418E-05	1.965E-05	1.965E-05
C	24.5	0.01	414.	0.	0.	0.	48.2	27.4	48.2	9.833E-06	7.990E-06	7.990E-06
D	0.4	0.06	414.	0.	0.	0.	34.0	15.8	34.0	1.428E-03	9.116E-04	9.116E-04
D	0.5	0.07	414.	0.	0.	0.	34.0	15.8	34.0	1.186E-03	7.569E-04	7.569E-04

CA= 957.SQ.METERS



D	0.7	0.23	414.	0.	0.	34.0	15.8	34.0	7.905E-04	5.046E-04	5.046E-04
D	1.0	0.48	414.	0.	0.	34.0	15.8	34.0	5.928E-04	3.785E-04	3.785E-04
D	1.2	0.69	414.	0.	0.	34.0	15.8	34.0	4.743E-04	3.028E-04	3.028E-04
D	1.5	1.10	414.	0.	0.	34.0	15.8	34.0	3.952E-04	2.523E-04	2.523E-04
D	2.0	2.39	414.	0.	0.	34.0	15.8	34.0	2.971E-04	1.897E-04	1.897E-04
D	3.0	5.99	414.	0.	0.	34.0	15.8	34.0	1.979E-04	1.263E-04	1.263E-04
D	4.0	5.03	414.	0.	0.	34.0	15.8	34.0	1.484E-04	9.472E-05	9.472E-05
D	5.0	3.36	414.	0.	0.	34.0	15.8	34.0	1.188E-04	7.583E-05	7.583E-05
D	6.0	1.97	414.	0.	0.	34.0	15.8	34.0	9.896E-05	6.317E-05	6.317E-05
D	8.0	1.60	414.	0.	0.	34.0	15.8	34.0	7.419E-05	4.736E-05	4.736E-05
D	10.0	0.39	414.	0.	0.	34.0	15.8	34.0	5.936E-05	3.790E-05	3.790E-05
D	24.5	0.06	414.	0.	0.	34.0	15.8	34.0	2.415E-05	1.541E-05	1.541E-05
E	0.4	0.14	414.	0.	0.	24.2	11.2	24.2	2.832E-03	1.336E-03	1.336E-03
E	0.5	0.14	414.	0.	0.	24.2	11.2	24.2	2.352E-03	1.109E-03	1.109E-03
E	0.7	0.48	414.	0.	0.	24.2	11.2	24.2	1.568E-03	7.393E-04	7.393E-04
E	1.0	1.15	414.	0.	0.	24.2	11.2	24.2	1.176E-03	5.545E-04	5.545E-04
E	1.2	1.22	414.	0.	0.	24.2	11.2	24.2	9.407E-04	4.436E-04	4.436E-04
E	1.5	1.80	414.	0.	0.	24.2	11.2	24.2	7.839E-04	3.697E-04	3.697E-04
E	2.0	3.92	414.	0.	0.	24.2	11.2	24.2	5.892E-04	2.779E-04	2.779E-04
E	3.0	8.40	414.	0.	0.	24.2	11.2	24.2	3.925E-04	1.851E-04	1.851E-04
E	4.0	5.60	414.	0.	0.	24.2	11.2	24.2	2.943E-04	1.388E-04	1.388E-04
E	5.0	3.16	414.	0.	0.	24.2	11.2	24.2	2.356E-04	1.111E-04	1.111E-04
E	6.0	1.62	414.	0.	0.	24.2	11.2	24.2	1.963E-04	9.255E-05	9.255E-05
E	8.0	1.15	414.	0.	0.	24.2	11.2	24.2	1.471E-04	6.939E-05	6.939E-05
E	10.0	0.23	414.	0.	0.	24.2	11.2	24.2	1.177E-04	5.552E-05	5.552E-05
E	24.5	0.05	414.	0.	0.	24.2	11.2	24.2	4.789E-05	2.258E-05	2.258E-05
F	0.4	0.18	414.	0.	0.	16.7	7.1	16.7	6.518E-03	2.172E-03	2.172E-03
F	0.5	0.09	414.	0.	0.	16.7	7.1	16.7	5.412E-03	1.804E-03	1.804E-03
F	0.7	0.42	414.	0.	0.	16.7	7.1	16.7	3.608E-03	1.203E-03	1.203E-03
F	1.0	0.79	414.	0.	0.	16.7	7.1	16.7	2.706E-03	9.019E-04	9.019E-04
F	1.2	0.82	414.	0.	0.	16.7	7.1	16.7	2.165E-03	7.215E-04	7.215E-04
F	1.5	1.23	414.	0.	0.	16.7	7.1	16.7	1.804E-03	6.013E-04	6.013E-04
F	2.0	2.57	414.	0.	0.	16.7	7.1	16.7	1.356E-03	4.520E-04	4.520E-04
F	3.0	3.16	414.	0.	0.	16.7	7.1	16.7	9.034E-04	3.011E-04	3.011E-04
F	4.0	0.45	414.	0.	0.	16.7	7.1	16.7	6.773E-04	2.257E-04	2.257E-04
F	5.0	0.14	414.	0.	0.	16.7	7.1	16.7	5.422E-04	1.807E-04	1.807E-04
F	6.0	0.04	414.	0.	0.	16.7	7.1	16.7	4.517E-04	1.505E-04	1.505E-04
F	8.0	0.04	414.	0.	0.	16.7	7.1	16.7	3.386E-04	1.129E-04	1.129E-04
F	10.0	0.01	414.	0.	0.	16.7	7.1	16.7	2.710E-04	9.031E-05	9.031E-05
G	0.4	0.55	414.	0.	0.	11.5	4.5	11.5	1.500E-02	4.999E-03	4.999E-03
G	0.5	0.38	414.	0.	0.	11.5	4.5	11.5	1.246E-02	4.151E-03	4.151E-03
G	0.7	1.26	414.	0.	0.	11.5	4.5	11.5	8.303E-03	2.768E-03	2.768E-03
G	1.0	2.02	414.	0.	0.	11.5	4.5	11.5	6.228E-03	2.076E-03	2.076E-03
G	1.2	1.84	414.	0.	0.	11.5	4.5	11.5	4.982E-03	1.661E-03	1.661E-03
G	1.5	2.63	414.	0.	0.	11.5	4.5	11.5	4.152E-03	1.384E-03	1.384E-03
G	2.0	3.48	414.	0.	0.	11.5	4.5	11.5	3.121E-03	1.040E-03	1.040E-03
G	3.0	1.51	414.	0.	0.	11.5	4.5	11.5	2.079E-03	6.929E-04	6.929E-04
G	4.0	0.09	414.	0.	0.	11.5	4.5	11.5	1.559E-03	5.195E-04	5.195E-04
G	5.0	0.06	414.	0.	0.	11.5	4.5	11.5	1.248E-03	4.159E-04	4.159E-04
G	6.0	0.04	414.	0.	0.	11.5	4.5	11.5	1.039E-03	3.465E-04	3.465E-04
G	8.0	0.01	414.	0.	0.	11.5	4.5	11.5	7.793E-04	2.597E-04	2.597E-04
G	10.0	0.00	414.	0.	0.	11.5	4.5	11.5	6.236E-04	2.078E-04	2.078E-04



99.96684 100.00000

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)= 4.376  
 HANDCHECK GRAPH: SLOPE LT -1.0 FOR LOW PERCENTAGES. XSAVE ( 4)= 8.936  
 HANDCHECK GRAPH: SLOPE LT -1.0 FOR LOW PERCENTAGES. XSAVE ( 5)= 13.124  
 HANDCHECK GRAPH: SLOPE LT -1.0 FOR LOW PERCENTAGES. XSAVE ( 6)= 19.253

4.026E-03	1.000	1.000
2.497E-03	3.000	3.000
1.934E-03	5.000	5.000
1.277E-03	10.000	10.000
8.431E-04	15.000	15.000
5.312E-04	20.000	20.000
4.085E-04	25.000	25.000
3.235E-04	30.000	30.000
2.638E-04	35.000	35.000
2.234E-04	40.000	40.000
1.903E-04	45.000	45.000
1.622E-04	50.000	50.000
1.382E-04	55.000	55.000
1.183E-04	60.000	60.000
1.015E-04	65.000	65.000
8.691E-05	70.000	70.000
7.412E-05	75.000	75.000
6.207E-05	80.000	80.000
5.048E-05	85.000	85.000
3.892E-05	90.000	90.000
1.934E-03	5.0	5.00

K= 17 FIVEXQ(K)= 1.934E-03 FIVEPR(K)= 5.000



99.96651    99.99966

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)= 6.866  
 HANDCHECK GRAPH: SLOPE LT -1.0 FOR LOW PERCENTAGES. XSAVE( 5)= 16.951

K	I	XQSAVE(K,I)	XQINT(K,I)	XQSLOP(K,I)
18	1	-5.99148	-8.48816	-0.98105
18	2	-6.17738	-8.65943	-1.05377
18	3	-7.09367	-8.14985	-0.71081
18	4	-7.31468	-8.64614	-1.13321
18	5	-7.56266	-9.11334	-1.62185
18	6	-8.12372	-9.23086	-1.81446
18	7	-8.53528	-8.63885	-0.27019
18	8	-8.59460	-8.76858	-1.06226
18	9	-8.97649	-8.74997	-1.15731
18	10	-9.28775	-8.79465	-1.06117
18	11	-12.40458		
			NUMXQ(K)= 11	
		2.014E-03	1.000	1.000
		1.259E-03	3.000	3.000
		9.822E-04	5.000	5.000
		7.182E-04	10.000	10.000
		5.690E-04	15.000	15.000
		4.313E-04	20.000	20.000
		3.289E-04	25.000	25.000
		2.535E-04	30.000	30.000
		1.970E-04	35.000	35.000
		1.896E-04	40.000	40.000
		1.777E-04	45.000	45.000
		1.555E-04	50.000	50.000
		1.361E-04	55.000	55.000
		1.183E-04	60.000	60.000
		1.015E-04	65.000	65.000
		8.690E-05	70.000	70.000
		7.410E-05	75.000	75.000
		6.205E-05	80.000	80.000
		5.045E-05	85.000	85.000
		3.889E-05	90.000	90.000
		9.822E-04	5.0	5.00

K= 18    FIVEXQ(K)= 9.822E-04    FIVEPR(K)= 5.000

K	HIGHPR	PR	GRNDVT(K)
1	-3.12867	0.08781	3.17641
2	-1.98502	2.35711	2.93597
3	-3.39818	0.03392	4.93912
4	-3.52061	0.02154	4.51579
5	-3.43185	0.02998	3.74041

6	-3.53373	0.02049	2.67011
7	-3.47135	0.02590	4.14703
8	-3.33788	0.04222	4.12627
9	-3.12306	0.08950	7.18082
10	-3.05349	0.11311	6.96866
11	-2.94995	0.15892	6.53527
12	-2.64455	0.40900	10.49508
13	-2.57624	0.49942	10.75935
14	-2.67184	0.37718	10.96817
15	-2.70701	0.33946	10.50669
16	-2.99698	0.13634	6.33485

K	HOURS (K)	TOTHR
1	7.69212	7.69212
2	206.48310	214.17520
3	2.97148	217.14670
4	1.88648	219.03320
5	2.62635	221.65950
6	1.79511	223.45470
7	2.26868	225.72330
8	3.69829	229.42160
9	7.83988	237.26150
10	9.90807	247.16960
11	13.92121	261.09080
12	35.82798	296.91880
13	43.74879	340.66750
14	33.04133	373.70890
15	29.73673	403.44560
16	11.94335	415.38890

K	FIVEXQ	SVANN	SLTIME	TIMINT	I	TIME	XQT
1	4.219E-04	5.524E-06	-0.5171	-7.4124			
					1	8.0	-8.48759
					2	16.0	-8.84599
					3	72.0	-9.62369
					4	624.0	-10.74027
2	2.906E-04	4.308E-06	-0.5023	-7.7953			
					1	8.0	-8.83971
					2	16.0	-9.18786
					3	72.0	-9.94332
					4	624.0	-11.02797
3	3.017E-04	5.128E-06	-0.4859	-7.7693			
					1	8.0	-8.77977
					2	16.0	-9.11660
					3	72.0	-9.84751
					4	624.0	-10.89690
4	2.367E-04	3.763E-06	-0.4940	-8.0061			
					1	8.0	-9.03328
					2	16.0	-9.37566
					3	72.0	-10.11861
					4	624.0	-11.18530
5	2.425E-04	3.584E-06	-0.5026	-7.9761			
					1	8.0	-9.02126
					2	16.0	-9.36964
					3	72.0	-10.12561
					4	624.0	-11.21100
6	1.789E-04	2.425E-06	-0.5129	-8.2733			

				1	8.0	-9.33988
				2	16.0	-9.69542
				3	72.0	-10.46690
				4	624.0	-11.57457
7	2.738E-04	4.034E-06	-0.5030	-7.8545		
				1	8.0	-8.90043
				2	16.0	-9.24908
				3	72.0	-10.00563
				4	624.0	-11.09184
8	3.549E-04	4.776E-06	-0.5138	-7.5874		
				1	8.0	-8.65583
				2	16.0	-9.01198
				3	72.0	-9.78478
				4	624.0	-10.89433
9	5.564E-04	8.506E-06	-0.4986	-7.1484		
				1	8.0	-8.18524
				2	16.0	-8.53084
				3	72.0	-9.28076
				4	624.0	-10.35748
10	6.538E-04	1.009E-05	-0.4975	-6.9878		
				1	8.0	-8.02232
				2	16.0	-8.36714
				3	72.0	-9.11538
				4	624.0	-10.18967
11	8.349E-04	1.359E-05	-0.4911	-6.7478		
				1	8.0	-7.76909
				2	16.0	-8.10952
				3	72.0	-8.84822
				4	624.0	-9.90882
12	1.283E-03	2.871E-05	-0.4531	-6.3444		
				1	8.0	-7.28670
				2	16.0	-7.60079
				3	72.0	-8.28236
				4	624.0	-9.26093
13	1.405E-03	2.999E-05	-0.4588	-6.2497		
				1	8.0	-7.20369
				2	16.0	-7.52170
				3	72.0	-8.21175
				4	624.0	-9.20249
14	1.237E-03	2.153E-05	-0.4832	-6.3600		
				1	8.0	-7.36466
				2	16.0	-7.69956
				3	72.0	-8.42627
				4	624.0	-9.46963
15	1.150E-03	2.030E-05	-0.4814	-6.4342		
				1	8.0	-7.43531
				2	16.0	-7.76902
				3	72.0	-8.49315
				4	624.0	-9.53282
16	8.124E-04	1.160E-05	-0.5068	-6.7643		
				1	8.0	-7.81810
				2	16.0	-8.16938
				3	72.0	-8.93161
				4	624.0	-10.02599
17	1.934E-03	2.999E-05	-0.4969	-5.9037		
				1	8.0	-6.93694
				2	16.0	-7.28136

				3	72.0	-8.02874
				4	624.0	-9.10179
18	9.822E-04	2.999E-05	-0.4161	-6.6374		
				1	8.0	-7.50257
				2	16.0	-7.79098
				3	72.0	-8.41679
				4	624.0	-9.31531



USNRC COMPUTER CODE-PAVAN, VERSION 2.0

RUN DATE: 03/07/07

PLANT NAME: Oyster Creek

METEOROLOGICAL INSTRUMENTATION

DATA PERIOD:

WIND SENSORS HEIGHT: Ground

TYPE OF RELEASE: Ground Release

DELTA-T HEIGHTS: 10.1-45.7 meters

SOURCE OF DATA:

COMMENTS: Oyster Creek, Ground Release, 1995-1999 met data

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 DISTANCE SECTOR (METERS)	HOURS PER YEAR MAX 0-2 HR X/Q IS EXCEEDED							DOWNWIND SECTOR
	0-2 HOURS	0-8 HOURS	8-24 HOURS	1-4 DAYS	4-30 DAYS	ANNUAL AVERAGE	IN SECTOR	
S 414.	4.22E-04	2.06E-04	1.44E-04	6.61E-05	2.17E-05	5.52E-06	7.7	S
SSW 414.	2.91E-04	1.45E-04	1.02E-04	4.80E-05	1.62E-05	4.31E-06	206.5	SSW
SW 414.	3.02E-04	1.54E-04	1.10E-04	5.29E-05	1.85E-05	5.13E-06	3.0	SW
WSW 414.	2.37E-04	1.19E-04	8.48E-05	4.03E-05	1.39E-05	3.76E-06	1.9	WSW
W 414.	2.43E-04	1.21E-04	8.53E-05	4.00E-05	1.35E-05	3.58E-06	2.6	W
WNW 414.	1.79E-04	8.79E-05	6.16E-05	2.85E-05	9.40E-06	2.42E-06	1.8	WNW
NW 414.	2.74E-04	1.36E-04	9.62E-05	4.51E-05	1.52E-05	4.03E-06	2.3	NW
NNW 414.	3.55E-04	1.74E-04	1.22E-04	5.63E-05	1.86E-05	4.78E-06	3.7	NNW
N 414.	5.56E-04	2.79E-04	1.97E-04	9.32E-05	3.18E-05	8.51E-06	7.8	N
NNE 414.	6.54E-04	3.28E-04	2.32E-04	1.10E-04	3.76E-05	1.01E-05	9.9	NNE
NE 414.	8.35E-04	4.23E-04	3.01E-04	1.44E-04	4.97E-05	1.36E-05	13.9	NE
ENE 414.	1.28E-03	6.85E-04	5.00E-04	2.53E-04	9.51E-05	2.87E-05	35.8	ENE
E 414.	1.41E-03	7.44E-04	5.41E-04	2.71E-04	1.01E-04	3.00E-05	43.7	E
ESE 414.	1.24E-03	6.33E-04	4.53E-04	2.19E-04	7.72E-05	2.15E-05	33.0	ESE
SE 414.	1.15E-03	5.90E-04	4.23E-04	2.05E-04	7.24E-05	2.03E-05	29.7	SE
SSE 414.	8.12E-04	4.02E-04	2.83E-04	1.32E-04	4.42E-05	1.16E-05	11.9	SSE
MAX X/Q	1.41E-03						TOTAL HOURS AROUND SITE: 415.4	
SRP 2.3.4 414.	1.93E-03	9.71E-04	6.88E-04	3.26E-04	1.11E-04	3.00E-05		
SITE LIMIT	9.82E-04	5.52E-04	4.13E-04	2.21E-04	9.00E-05	3.00E-05		

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: 03/07/07

PLANT NAME: Oyster Creek

METEOROLOGICAL INSTRUMENTATION

DATA PERIOD:

WIND SENSORS HEIGHT: Ground

TYPE OF RELEASE: Ground Release

DELTA-T HEIGHTS: 10.1-45.7 meters

SOURCE OF DATA:

COMMENTS: Oyster Creek, Ground Release, 1995-1999 met data

PROGRAM: PAVAN, 10/76, 8/79 REVISION, IMPLEMENTATION OF REGULATORY GUIDE 1.145

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

CLASS	METER/SEC AT 10.0 METERS	PERCENT	DISTANCE METERS	TERRAIN HT METERS	HT EFF METERS	PLUME HT METERS	SIGMA-Y METERS	SIGMA-Z METERS	MEANDER-SY METERS	** CHI/Q VALUES (SEC/CUBIC METER)		
										MEANDER	BLDG WAKE	USED
										CA= 957.SQ.METERS		
A	0.4	0.00	3218.	0.	0.	538.2	1000.0	538.2	1.426E-06	1.425E-06	1.425E-06	
A	0.7	0.07	3218.	0.	0.	538.2	1000.0	538.2	7.895E-07	7.890E-07	7.890E-07	
A	1.5	0.22	3218.	0.	0.	538.2	1000.0	538.2	3.947E-07	3.945E-07	3.945E-07	
A	2.0	0.82	3218.	0.	0.	538.2	1000.0	538.2	2.967E-07	2.965E-07	2.965E-07	
A	3.0	2.16	3218.	0.	0.	538.2	1000.0	538.2	1.977E-07	1.975E-07	1.975E-07	
A	4.0	1.94	3218.	0.	0.	538.2	1000.0	538.2	1.482E-07	1.481E-07	1.481E-07	
A	5.0	2.01	3218.	0.	0.	538.2	1000.0	538.2	1.186E-07	1.186E-07	1.186E-07	
A	6.0	0.45	3218.	0.	0.	538.2	1000.0	538.2	9.883E-08	9.877E-08	9.877E-08	
A	8.0	0.22	3218.	0.	0.	538.2	1000.0	538.2	7.409E-08	7.405E-08	7.405E-08	
B	1.2	0.07	3218.	0.	0.	404.8	392.6	404.8	1.604E-06	1.601E-06	1.601E-06	
B	1.5	0.37	3218.	0.	0.	404.8	392.6	404.8	1.337E-06	1.334E-06	1.334E-06	
B	2.0	0.67	3218.	0.	0.	404.8	392.6	404.8	1.005E-06	1.003E-06	1.003E-06	
B	3.0	1.57	3218.	0.	0.	404.8	392.6	404.8	6.695E-07	6.682E-07	6.682E-07	
B	4.0	1.19	3218.	0.	0.	404.8	392.6	404.8	5.019E-07	5.010E-07	5.010E-07	
B	5.0	0.67	3218.	0.	0.	404.8	392.6	404.8	4.018E-07	4.011E-07	4.011E-07	
B	6.0	0.07	3218.	0.	0.	404.8	392.6	404.8	3.348E-07	3.341E-07	3.341E-07	
C	1.2	0.07	3218.	0.	0.	307.4	177.2	307.4	4.681E-06	4.655E-06	4.655E-06	
C	1.5	0.15	3218.	0.	0.	307.4	177.2	307.4	3.900E-06	3.879E-06	3.879E-06	
C	2.0	0.30	3218.	0.	0.	307.4	177.2	307.4	2.932E-06	2.916E-06	2.916E-06	
C	3.0	1.72	3218.	0.	0.	307.4	177.2	307.4	1.953E-06	1.942E-06	1.942E-06	
C	4.0	0.60	3218.	0.	0.	307.4	177.2	307.4	1.464E-06	1.456E-06	1.456E-06	
C	5.0	0.37	3218.	0.	0.	307.4	177.2	307.4	1.172E-06	1.166E-06	1.166E-06	
C	6.0	0.07	3218.	0.	0.	307.4	177.2	307.4	9.766E-07	9.711E-07	9.711E-07	
D	0.4	0.14	3218.	0.	0.	216.4	68.3	278.0	4.040E-05	5.085E-05	4.040E-05	
D	0.5	0.15	3218.	0.	0.	216.4	68.3	278.0	3.355E-05	4.222E-05	3.355E-05	
D	0.7	0.75	3218.	0.	0.	216.4	68.3	278.0	2.237E-05	2.815E-05	2.237E-05	
D	1.0	1.12	3218.	0.	0.	216.4	68.3	278.0	1.677E-05	2.111E-05	1.677E-05	
D	1.2	1.27	3218.	0.	0.	216.4	68.3	278.0	1.342E-05	1.689E-05	1.342E-05	
D	1.5	2.31	3218.	0.	0.	216.4	68.3	278.0	1.118E-05	1.407E-05	1.118E-05	
D	2.0	5.00	3218.	0.	0.	216.4	68.3	278.0	8.406E-06	1.058E-05	8.406E-06	
D	3.0	11.78	3218.	0.	0.	216.4	68.3	250.4	6.218E-06	7.048E-06	6.218E-06	
D	4.0	6.71	3218.	0.	0.	216.4	68.3	234.5	4.977E-06	5.284E-06	4.977E-06	
D	5.0	3.28	3218.	0.	0.	216.4	68.3	224.1	4.170E-06	4.230E-06	4.170E-06	
D	6.0	0.67	3218.	0.	0.	216.4	68.3	216.5	3.595E-06	3.524E-06	3.524E-06	
D	8.0	0.89	3218.	0.	0.	216.4	68.3	216.4	2.696E-06	2.642E-06	2.642E-06	
D	10.0	0.22	3218.	0.	0.	216.4	68.3	216.4	2.158E-06	2.114E-06	2.114E-06	
E	0.4	0.23	3218.	0.	0.	153.9	45.0	241.5	7.076E-05	1.063E-04	7.076E-05	
E	0.5	0.45	3218.	0.	0.	153.9	45.0	241.5	5.875E-05	8.830E-05	5.875E-05	
E	0.7	1.42	3218.	0.	0.	153.9	45.0	241.5	3.917E-05	5.887E-05	3.917E-05	

E	1.0	1.86	3218.	0.	0.	153.9	45.0	241.5	2.938E-05	4.415E-05	2.938E-05
E	1.2	1.34	3218.	0.	0.	153.9	45.0	241.5	2.350E-05	3.532E-05	2.350E-05
E	1.5	1.72	3218.	0.	0.	153.9	45.0	241.5	1.958E-05	2.943E-05	1.958E-05
E	2.0	4.55	3218.	0.	0.	153.9	45.0	241.5	1.472E-05	2.213E-05	1.472E-05
E	3.0	8.95	3218.	0.	0.	153.9	45.0	198.1	1.195E-05	1.474E-05	1.195E-05
E	4.0	7.90	3218.	0.	0.	153.9	45.0	176.1	1.008E-05	1.105E-05	1.008E-05
E	5.0	3.80	3218.	0.	0.	153.9	45.0	162.9	8.722E-06	8.846E-06	8.722E-06
E	6.0	1.86	3218.	0.	0.	153.9	45.0	154.1	7.682E-06	7.370E-06	7.370E-06
E	8.0	0.89	3218.	0.	0.	153.9	45.0	153.9	5.768E-06	5.525E-06	5.525E-06
E	10.0	0.07	3218.	0.	0.	153.9	45.0	153.9	4.615E-06	4.421E-06	4.421E-06
F	0.4	0.15	3218.	0.	0.	106.2	28.6	196.9	1.365E-04	2.299E-04	1.365E-04
F	0.5	0.15	3218.	0.	0.	106.2	28.6	196.9	1.133E-04	1.909E-04	1.133E-04
F	0.7	0.22	3218.	0.	0.	106.2	28.6	196.9	7.554E-05	1.273E-04	7.554E-05
F	1.0	0.97	3218.	0.	0.	106.2	28.6	196.9	5.665E-05	9.545E-05	5.665E-05
F	1.2	0.52	3218.	0.	0.	106.2	28.6	196.9	4.532E-05	7.636E-05	4.532E-05
F	1.5	0.75	3218.	0.	0.	106.2	28.6	196.9	3.777E-05	6.363E-05	3.777E-05
F	2.0	1.79	3218.	0.	0.	106.2	28.6	196.9	2.839E-05	4.783E-05	2.839E-05
F	3.0	1.57	3218.	0.	0.	106.2	28.6	148.9	2.500E-05	3.186E-05	2.500E-05
F	4.0	0.15	3218.	0.	0.	106.2	28.6	126.7	2.203E-05	2.389E-05	2.203E-05
F	5.0	0.07	3218.	0.	0.	106.2	28.6	114.3	1.955E-05	1.912E-05	1.912E-05
G	0.4	0.44	3218.	0.	0.	73.3	18.2	177.6	2.378E-04	4.692E-04	2.378E-04
G	0.5	0.82	3218.	0.	0.	73.3	18.2	177.6	1.975E-04	3.896E-04	1.975E-04
G	0.7	1.42	3218.	0.	0.	73.3	18.2	177.6	1.317E-04	2.597E-04	1.317E-04
G	1.0	1.27	3218.	0.	0.	73.3	18.2	177.6	9.875E-05	1.948E-04	9.875E-05
G	1.2	0.89	3218.	0.	0.	73.3	18.2	177.6	7.900E-05	1.558E-04	7.900E-05
G	1.5	0.37	3218.	0.	0.	73.3	18.2	177.6	6.583E-05	1.299E-04	6.583E-05
G	2.0	1.79	3218.	0.	0.	73.3	18.2	177.6	4.948E-05	9.762E-05	4.948E-05
G	3.0	1.27	3218.	0.	0.	73.3	18.2	117.6	4.979E-05	6.503E-05	4.979E-05
G	4.0	0.15	3218.	0.	0.	73.3	18.2	93.2	4.711E-05	4.876E-05	4.711E-05
G	5.0	0.07	3218.	0.	0.	73.3	18.2	80.8	4.350E-05	3.903E-05	3.903E-05

USNRC COMPUTER CODE-PAVAN, VERSION 2.0

RUN DATE: 03/07/07

PLANT NAME: Oyster Creek

METEOROLOGICAL INSTRUMENTATION

DATA PERIOD:

WIND SENSORS HEIGHT: Ground

TYPE OF RELEASE: Ground Release

DELTA-T HEIGHTS: 10.1-45.7 meters

SOURCE OF DATA:

COMMENTS: Oyster Creek, Ground Release, 1995-1999 met data

PROGRAM: PAVAN, 10/76, 8/79 REVISION, IMPLEMENTATION OF REGULATORY GUIDE 1.145

LOW POPULATION ZONE CALCULATIONS:

S SECTOR BOUNDARY DISTANCE = 3218.0 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= 1913. D= 44.8

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.

2.378E-04	1.975E-04	1.365E-04	1.317E-04	1.133E-04	9.875E-05	7.900E-05	7.554E-05	7.076E-05	6.583E-05
0.438	1.259	1.412	2.829	2.978	4.246	5.141	5.365	5.597	5.970
0.01392	0.03998	0.04485	0.08986	0.09460	0.13487	0.16329	0.17040	0.17779	0.18964
5.875E-05	5.665E-05	4.979E-05	4.948E-05	4.711E-05	4.532E-05	4.040E-05	3.917E-05	3.903E-05	3.777E-05
6.418	7.387	8.655	10.445	10.594	11.116	11.253	12.670	12.745	13.491
0.20385	0.23464	0.27491	0.33177	0.33650	0.35309	0.35746	0.40246	0.40483	0.42852
3.355E-05	2.938E-05	2.839E-05	2.500E-05	2.350E-05	2.237E-05	2.203E-05	1.958E-05	1.912E-05	1.677E-05
13.640	15.504	17.294	18.860	20.203	20.948	21.097	22.813	22.887	24.006
0.43326	0.49248	0.54933	0.59908	0.64172	0.66540	0.67014	0.72462	0.72699	0.76253
1.472E-05	1.342E-05	1.195E-05	1.118E-05	1.008E-05	8.722E-06	8.406E-06	7.370E-06	6.218E-06	5.525E-06
28.555	29.823	38.772	41.084	48.989	52.792	57.789	59.653	71.436	72.331
0.90702	0.94729	1.23155	1.30499	1.55608	1.67689	1.83560	1.89482	2.26910	2.29753
4.977E-06	4.655E-06	4.421E-06	4.170E-06	3.879E-06	3.524E-06	2.916E-06	2.642E-06	2.114E-06	1.942E-06
79.043	79.117	79.192	82.473	82.622	83.293	83.592	84.487	84.710	86.426
2.51072	2.51309	2.51546	2.61969	2.62442	2.64574	2.65522	2.68364	2.69075	2.74523
1.601E-06	1.456E-06	1.425E-06	1.334E-06	1.166E-06	1.003E-06	9.711E-07	7.890E-07	6.682E-07	5.010E-07
86.500	87.097	87.098	87.471	87.844	88.515	88.590	88.665	90.231	91.424
2.74760	2.76655	2.76661	2.77845	2.79030	2.81162	2.81399	2.81635	2.86610	2.90400
4.011E-07	3.945E-07	3.341E-07	2.965E-07	1.975E-07	1.481E-07	1.186E-07	9.877E-08	7.405E-08	
92.095	92.319	92.393	93.214	95.376	97.315	99.329	99.776	100.000	
2.92532	2.93243	2.93480	2.96085	3.02955	3.09114	3.15510	3.16931	3.17642	

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)= 0.090  
 HANDCHECK GRAPH: SLOPE LT -1.0 FOR LOW PERCENTAGES. XSAVE ( 4)= 0.135  
 HANDCHECK GRAPH: SLOPE LT -1.0 FOR LOW PERCENTAGES. XSAVE ( 5)= 0.331  
 HANDCHECK GRAPH: SLOPE LT -1.0 FOR LOW PERCENTAGES. XSAVE ( 6)= 0.428  
 HANDCHECK GRAPH: SLOPE LT -1.0 FOR LOW PERCENTAGES. XSAVE ( 7)= 0.549  
 HANDCHECK GRAPH: SLOPE LT -1.0 FOR LOW PERCENTAGES. XSAVE ( 8)= 0.641  
 HANDCHECK GRAPH: SLOPE LT -1.0 FOR LOW PERCENTAGES. XSAVE ( 9)= 1.230  
 HANDCHECK GRAPH: SLOPE LT -1.0 FOR LOW PERCENTAGES. XSAVE (10)= 1.554  
 HANDCHECK GRAPH: SLOPE LT -1.0 FOR LOW PERCENTAGES. XSAVE (11)= 1.834

K	I	XQSAVE(K, I)	XQINT(K, I)	XQSLOP(K, I)
1	1	-8.34389	-10.74376	-0.66026
1	2	-8.52979	-14.41464	-1.75502
1	3	-8.93526	-16.32539	-2.36702
1	4	-9.22294	-16.48203	-2.41922
1	5	-9.91385	-18.45741	-3.14680
1	6	-10.18406	-18.95213	-3.33498
1	7	-10.46950	-19.24340	-3.44949
1	8	-10.65847	-17.63636	-2.80377
1	9	-11.33466	-15.50945	-1.85746
1	10	-11.50485	-17.39137	-2.73035
1	11	-11.68659	NUMXQ(K) = 11	
		2.059E-04	0.032	1.000
		1.264E-04	0.095	3.000
		8.747E-05	0.159	5.000
		5.124E-05	0.318	10.000
		3.347E-05	0.476	15.000
		2.379E-05	0.635	20.000
		1.895E-05	0.794	25.000
		1.570E-05	0.953	30.000
		1.334E-05	1.112	35.000
		1.169E-05	1.271	40.000
		1.073E-05	1.429	45.000
		9.859E-06	1.588	50.000
		8.880E-06	1.747	55.000
		3.166E-05	0.5	15.74

ANNUAL AVERAGE = 2.41E-07

K= 1 FIVEXQ(K)= 3.166E-05 FIVEPR(K)=15.741

USNRC COMPUTER CODE-PAVAN, VERSION 2.0

RUN DATE: 03/07/07

PLANT NAME: Oyster Creek  
 DATA PERIOD:  
 TYPE OF RELEASE: Ground Release  
 SOURCE OF DATA:  
 COMMENTS: Oyster Creek, Ground Release, 1995-1999 met data  
 PROGRAM: PAVAN, 10/76, 8/79 REVISION, IMPLEMENTATION OF REGULATORY GUIDE 1.145

METEOROLOGICAL INSTRUMENTATION  
 WIND SENSORS HEIGHT: Ground  
 DELTA-T HEIGHTS: 10.1-45.7 meters

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

CLASS	METER/SEC	PERCENT	METERS	METERS	METERS	SIGMA-Y	SIGMA-Z	MEANDER-SY	** CHI/Q VALUES (SEC/CUBIC METER)		
									MEANDER	BLDG WAKE	USED
AT 10.0 METERS									CA= 957.SQ.METERS		
A	0.4	0.00	3218.	0.	0.	538.2	1000.0	538.2	1.426E-06	1.425E-06	1.425E-06
A	1.2	0.08	3218.	0.	0.	538.2	1000.0	538.2	4.737E-07	4.734E-07	4.734E-07
A	1.5	0.32	3218.	0.	0.	538.2	1000.0	538.2	3.947E-07	3.945E-07	3.945E-07
A	2.0	0.73	3218.	0.	0.	538.2	1000.0	538.2	2.967E-07	2.965E-07	2.965E-07
A	3.0	2.02	3218.	0.	0.	538.2	1000.0	538.2	1.977E-07	1.975E-07	1.975E-07
A	4.0	2.42	3218.	0.	0.	538.2	1000.0	538.2	1.482E-07	1.481E-07	1.481E-07
A	5.0	1.05	3218.	0.	0.	538.2	1000.0	538.2	1.186E-07	1.186E-07	1.186E-07
A	6.0	0.48	3218.	0.	0.	538.2	1000.0	538.2	9.883E-08	9.877E-08	9.877E-08
B	0.7	0.08	3218.	0.	0.	404.8	392.6	404.8	2.674E-06	2.669E-06	2.669E-06
B	1.0	0.16	3218.	0.	0.	404.8	392.6	404.8	2.006E-06	2.002E-06	2.002E-06
B	1.5	0.48	3218.	0.	0.	404.8	392.6	404.8	1.337E-06	1.334E-06	1.334E-06
B	2.0	0.48	3218.	0.	0.	404.8	392.6	404.8	1.005E-06	1.003E-06	1.003E-06
B	3.0	2.10	3218.	0.	0.	404.8	392.6	404.8	6.695E-07	6.682E-07	6.682E-07
B	4.0	1.21	3218.	0.	0.	404.8	392.6	404.8	5.019E-07	5.010E-07	5.010E-07
B	5.0	0.16	3218.	0.	0.	404.8	392.6	404.8	4.018E-07	4.011E-07	4.011E-07
B	8.0	0.08	3218.	0.	0.	404.8	392.6	404.8	2.510E-07	2.505E-07	2.505E-07
C	1.0	0.24	3218.	0.	0.	307.4	177.2	307.4	5.851E-06	5.818E-06	5.818E-06
C	1.2	0.08	3218.	0.	0.	307.4	177.2	307.4	4.681E-06	4.655E-06	4.655E-06
C	1.5	0.16	3218.	0.	0.	307.4	177.2	307.4	3.900E-06	3.879E-06	3.879E-06
C	2.0	0.48	3218.	0.	0.	307.4	177.2	307.4	2.932E-06	2.916E-06	2.916E-06
C	3.0	1.45	3218.	0.	0.	307.4	177.2	307.4	1.953E-06	1.942E-06	1.942E-06
C	4.0	0.24	3218.	0.	0.	307.4	177.2	307.4	1.464E-06	1.456E-06	1.456E-06
C	5.0	0.16	3218.	0.	0.	307.4	177.2	307.4	1.172E-06	1.166E-06	1.166E-06
D	0.4	0.18	3218.	0.	0.	216.4	68.3	278.0	4.040E-05	5.085E-05	4.040E-05
D	0.5	0.32	3218.	0.	0.	216.4	68.3	278.0	3.355E-05	4.222E-05	3.355E-05
D	0.7	0.81	3218.	0.	0.	216.4	68.3	278.0	2.237E-05	2.815E-05	2.237E-05
D	1.0	1.45	3218.	0.	0.	216.4	68.3	278.0	1.677E-05	2.111E-05	1.677E-05
D	1.2	1.61	3218.	0.	0.	216.4	68.3	278.0	1.342E-05	1.689E-05	1.342E-05
D	1.5	2.99	3218.	0.	0.	216.4	68.3	278.0	1.118E-05	1.407E-05	1.118E-05
D	2.0	6.13	3218.	0.	0.	216.4	68.3	278.0	8.406E-06	1.058E-05	8.406E-06
D	3.0	12.67	3218.	0.	0.	216.4	68.3	250.4	6.218E-06	7.048E-06	6.218E-06
D	4.0	7.58	3218.	0.	0.	216.4	68.3	234.5	4.977E-06	5.284E-06	4.977E-06
D	5.0	4.20	3218.	0.	0.	216.4	68.3	224.1	4.170E-06	4.230E-06	4.170E-06
D	6.0	1.37	3218.	0.	0.	216.4	68.3	216.5	3.595E-06	3.524E-06	3.524E-06
D	8.0	0.40	3218.	0.	0.	216.4	68.3	216.4	2.696E-06	2.642E-06	2.642E-06
D	10.0	0.24	3218.	0.	0.	216.4	68.3	216.4	2.158E-06	2.114E-06	2.114E-06
E	0.4	0.25	3218.	0.	0.	153.9	45.0	241.5	7.076E-05	1.063E-04	7.076E-05
E	0.5	0.16	3218.	0.	0.	153.9	45.0	241.5	5.875E-05	8.830E-05	5.875E-05
E	0.7	1.05	3218.	0.	0.	153.9	45.0	241.5	3.917E-05	5.887E-05	3.917E-05

E	1.0	1.94	3218.	0.	0.	153.9	45.0	241.5	2.938E-05	4.415E-05	2.938E-05
E	1.2	2.26	3218.	0.	0.	153.9	45.0	241.5	2.350E-05	3.532E-05	2.350E-05
E	1.5	2.99	3218.	0.	0.	153.9	45.0	241.5	1.958E-05	2.943E-05	1.958E-05
E	2.0	3.39	3218.	0.	0.	153.9	45.0	241.5	1.472E-05	2.213E-05	1.472E-05
E	3.0	7.42	3218.	0.	0.	153.9	45.0	198.1	1.195E-05	1.474E-05	1.195E-05
E	4.0	6.13	3218.	0.	0.	153.9	45.0	176.1	1.008E-05	1.105E-05	1.008E-05
E	5.0	5.16	3218.	0.	0.	153.9	45.0	162.9	8.722E-06	8.846E-06	8.722E-06
E	6.0	4.44	3218.	0.	0.	153.9	45.0	154.1	7.682E-06	7.370E-06	7.370E-06
E	8.0	2.02	3218.	0.	0.	153.9	45.0	153.9	5.768E-06	5.525E-06	5.525E-06
F	0.4	0.21	3218.	0.	0.	106.2	28.6	196.9	1.365E-04	2.299E-04	1.365E-04
F	0.5	0.32	3218.	0.	0.	106.2	28.6	196.9	1.133E-04	1.909E-04	1.133E-04
F	0.7	0.65	3218.	0.	0.	106.2	28.6	196.9	7.554E-05	1.273E-04	7.554E-05
F	1.0	0.48	3218.	0.	0.	106.2	28.6	196.9	5.665E-05	9.545E-05	5.665E-05
F	1.2	1.05	3218.	0.	0.	106.2	28.6	196.9	4.532E-05	7.636E-05	4.532E-05
F	1.5	0.73	3218.	0.	0.	106.2	28.6	196.9	3.777E-05	6.363E-05	3.777E-05
F	2.0	0.40	3218.	0.	0.	106.2	28.6	196.9	2.839E-05	4.783E-05	2.839E-05
F	3.0	0.65	3218.	0.	0.	106.2	28.6	148.9	2.500E-05	3.186E-05	2.500E-05
F	4.0	0.16	3218.	0.	0.	106.2	28.6	126.7	2.203E-05	2.389E-05	2.203E-05
G	0.4	0.21	3218.	0.	0.	73.3	18.2	177.6	2.378E-04	4.692E-04	2.378E-04
G	0.5	0.56	3218.	0.	0.	73.3	18.2	177.6	1.975E-04	3.896E-04	1.975E-04
G	0.7	0.73	3218.	0.	0.	73.3	18.2	177.6	1.317E-04	2.597E-04	1.317E-04
G	1.0	0.56	3218.	0.	0.	73.3	18.2	177.6	9.875E-05	1.948E-04	9.875E-05
G	1.2	0.24	3218.	0.	0.	73.3	18.2	177.6	7.900E-05	1.558E-04	7.900E-05
G	1.5	0.32	3218.	0.	0.	73.3	18.2	177.6	6.583E-05	1.299E-04	6.583E-05
G	2.0	0.56	3218.	0.	0.	73.3	18.2	177.6	4.948E-05	9.762E-05	4.948E-05
G	3.0	0.08	3218.	0.	0.	73.3	18.2	117.6	4.979E-05	6.503E-05	4.979E-05
G	4.0	0.16	3218.	0.	0.	73.3	18.2	93.2	4.711E-05	4.876E-05	4.711E-05
G	5.0	0.08	3218.	0.	0.	73.3	18.2	80.8	4.350E-05	3.903E-05	3.903E-05

USNRC COMPUTER CODE-PAVAN, VERSION 2.0

RUN DATE: 03/07/07

PLANT NAME: Oyster Creek

METEOROLOGICAL INSTRUMENTATION

DATA PERIOD:

WIND SENSORS HEIGHT: Ground

TYPE OF RELEASE: Ground Release

DELTA-T HEIGHTS: 10.1-45.7 meters

SOURCE OF DATA:

COMMENTS: Oyster Creek, Ground Release, 1995-1999 met data

PROGRAM: PAVAN, 10/76, 8/79 REVISION, IMPLEMENTATION OF REGULATORY GUIDE 1.145

LOW POPULATION ZONE CALCULATIONS:

SSW SECTOR      BOUNDARY DISTANCE = 3218.0 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= 1913.      D= 44.8

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.

2.378E-04	1.975E-04	1.365E-04	1.317E-04	1.133E-04	9.875E-05	7.900E-05	7.554E-05	7.076E-05	6.583E-05
0.209	0.774	0.980	1.706	2.029	2.593	2.835	3.481	3.729	4.052
0.00614	0.02272	0.02876	0.05008	0.05956	0.07614	0.08324	0.10220	0.10948	0.11895
5.875E-05	5.665E-05	4.979E-05	4.948E-05	4.711E-05	4.532E-05	4.040E-05	3.917E-05	3.903E-05	3.777E-05
4.213	4.697	4.778	5.342	5.504	6.553	6.729	7.778	7.858	8.584
0.12369	0.13790	0.14027	0.15685	0.16159	0.19239	0.19755	0.22835	0.23072	0.25204
3.355E-05	2.938E-05	2.839E-05	2.500E-05	2.350E-05	2.237E-05	2.203E-05	1.958E-05	1.677E-05	1.472E-05
8.907	10.844	11.247	11.892	14.152	14.958	15.120	18.105	19.557	22.946
0.26151	0.31836	0.33021	0.34916	0.41548	0.43917	0.44391	0.53156	0.57420	0.67369
1.342E-05	1.195E-05	1.118E-05	1.008E-05	8.722E-06	8.406E-06	7.370E-06	6.218E-06	5.818E-06	5.525E-06
24.560	31.982	34.968	41.100	46.263	52.395	56.833	69.500	69.742	71.759
0.72106	0.93899	1.02664	1.20667	1.35828	1.53831	1.66859	2.04050	2.04761	2.10683
4.977E-06	4.655E-06	4.170E-06	3.879E-06	3.524E-06	2.916E-06	2.669E-06	2.642E-06	2.114E-06	2.002E-06
79.343	79.424	83.619	83.781	85.152	85.637	85.717	86.121	86.363	86.524
2.32950	2.33186	2.45504	2.45978	2.50005	2.51426	2.51663	2.52848	2.53558	2.54032
1.942E-06	1.456E-06	1.425E-06	1.334E-06	1.166E-06	1.003E-06	6.682E-07	5.010E-07	4.734E-07	4.011E-07
87.976	88.218	88.220	88.704	88.866	89.350	91.448	92.658	92.739	92.900
2.58296	2.59007	2.59012	2.60434	2.60907	2.62329	2.68488	2.72041	2.72278	2.72751
3.945E-07	2.965E-07	2.505E-07	1.975E-07	1.481E-07	1.186E-07	9.877E-08			
93.223	93.949	94.029	96.047	98.467	99.516	100.000			
2.73699	2.75831	2.76068	2.81990	2.89096	2.92176	2.93597			

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)= 0.050  
 HANDCHECK GRAPH: SLOPE LT -1.0 FOR LOW PERCENTAGES. XSAVE ( 4)= 0.076  
 HANDCHECK GRAPH: SLOPE LT -1.0 FOR LOW PERCENTAGES. XSAVE ( 5)= 0.119  
 HANDCHECK GRAPH: SLOPE LT -1.0 FOR LOW PERCENTAGES. XSAVE ( 6)= 0.192  
 HANDCHECK GRAPH: SLOPE LT -1.0 FOR LOW PERCENTAGES. XSAVE ( 7)= 0.252  
 HANDCHECK GRAPH: SLOPE LT -1.0 FOR LOW PERCENTAGES. XSAVE ( 8)= 0.531  
 HANDCHECK GRAPH: SLOPE LT -1.0 FOR LOW PERCENTAGES. XSAVE ( 9)= 1.537  
 HANDCHECK GRAPH: SLOPE LT -1.0 FOR LOW PERCENTAGES. XSAVE (10)= 2.038

K	I	XQSAVE(K, I)	XQINT(K, I)	XQSLOP(K, I)
2	1	-8.34389	-10.48006	-0.55619
2	2	-8.52979	-15.10619	-1.87549
2	3	-8.93526	-16.84125	-2.40281
2	4	-9.22294	-18.96491	-3.07262
2	5	-9.62841	-17.29878	-2.52430
2	6	-10.00173	-16.13431	-2.12147
2	7	-10.18406	-17.55866	-2.62930
2	8	-10.84079	-16.31898	-2.14410
2	9	-11.68659	-17.36860	-2.62992
2	10	-11.98807	NUMXQ(K) = 10	
		1.736E-04	0.029	1.000
		8.664E-05	0.088	3.000
		5.602E-05	0.147	5.000
		3.315E-05	0.294	10.000
		2.322E-05	0.440	15.000
		1.817E-05	0.587	20.000
		1.532E-05	0.734	25.000
		1.329E-05	0.881	30.000
		1.175E-05	1.028	35.000
		1.054E-05	1.174	40.000
		9.557E-06	1.321	45.000
		8.747E-06	1.468	50.000
		7.989E-06	1.615	55.000
		7.285E-06	1.762	60.000
		6.686E-06	1.908	65.000
		2.071E-05	0.5	17.03

ANNUAL AVERAGE = 1.92E-07

K= 2 FIVEXQ(K)= 2.071E-05 FIVEPR(K)=17.030

USNRC COMPUTER CODE-PAVAN, VERSION 2.0

RUN DATE: 03/07/07

PLANT NAME: Oyster Creek

METEOROLOGICAL INSTRUMENTATION

DATA PERIOD:

WIND SENSORS HEIGHT: Ground

TYPE OF RELEASE: Ground Release

DELTA-T HEIGHTS: 10.1-45.7 meters

SOURCE OF DATA:

COMMENTS: Oyster Creek, Ground Release, 1995-1999 met data

PROGRAM: PAVAN, 10/76, 8/79 REVISION, IMPLEMENTATION OF REGULATORY GUIDE 1.145

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

CLASS	METER/SEC	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	USED	
AT 10.0 METERS												
A	0.4	0.00	3218.	0.	0.	538.2	1000.0	538.2	1.426E-06	1.425E-06	1.425E-06	
A	1.0	0.05	3218.	0.	0.	538.2	1000.0	538.2	5.921E-07	5.918E-07	5.918E-07	
A	1.2	0.10	3218.	0.	0.	538.2	1000.0	538.2	4.737E-07	4.734E-07	4.734E-07	
A	1.5	0.10	3218.	0.	0.	538.2	1000.0	538.2	3.947E-07	3.945E-07	3.945E-07	
A	2.0	0.62	3218.	0.	0.	538.2	1000.0	538.2	2.967E-07	2.965E-07	2.965E-07	
A	3.0	2.11	3218.	0.	0.	538.2	1000.0	538.2	1.977E-07	1.975E-07	1.975E-07	
A	4.0	4.65	3218.	0.	0.	538.2	1000.0	538.2	1.482E-07	1.481E-07	1.481E-07	
A	5.0	3.84	3218.	0.	0.	538.2	1000.0	538.2	1.186E-07	1.186E-07	1.186E-07	
A	6.0	1.49	3218.	0.	0.	538.2	1000.0	538.2	9.883E-08	9.877E-08	9.877E-08	
A	8.0	0.62	3218.	0.	0.	538.2	1000.0	538.2	7.409E-08	7.405E-08	7.405E-08	
B	1.0	0.05	3218.	0.	0.	404.8	392.6	404.8	2.006E-06	2.002E-06	2.002E-06	
B	1.2	0.14	3218.	0.	0.	404.8	392.6	404.8	1.604E-06	1.601E-06	1.601E-06	
B	1.5	0.24	3218.	0.	0.	404.8	392.6	404.8	1.337E-06	1.334E-06	1.334E-06	
B	2.0	0.34	3218.	0.	0.	404.8	392.6	404.8	1.005E-06	1.003E-06	1.003E-06	
B	3.0	1.68	3218.	0.	0.	404.8	392.6	404.8	6.695E-07	6.682E-07	6.682E-07	
B	4.0	1.44	3218.	0.	0.	404.8	392.6	404.8	5.019E-07	5.010E-07	5.010E-07	
B	5.0	0.67	3218.	0.	0.	404.8	392.6	404.8	4.018E-07	4.011E-07	4.011E-07	
B	6.0	0.38	3218.	0.	0.	404.8	392.6	404.8	3.348E-07	3.341E-07	3.341E-07	
B	8.0	0.10	3218.	0.	0.	404.8	392.6	404.8	2.510E-07	2.505E-07	2.505E-07	
C	0.7	0.05	3218.	0.	0.	307.4	177.2	307.4	7.801E-06	7.758E-06	7.758E-06	
C	1.0	0.14	3218.	0.	0.	307.4	177.2	307.4	5.851E-06	5.818E-06	5.818E-06	
C	1.2	0.05	3218.	0.	0.	307.4	177.2	307.4	4.681E-06	4.655E-06	4.655E-06	
C	1.5	0.10	3218.	0.	0.	307.4	177.2	307.4	3.900E-06	3.879E-06	3.879E-06	
C	2.0	0.48	3218.	0.	0.	307.4	177.2	307.4	2.932E-06	2.916E-06	2.916E-06	
C	3.0	1.01	3218.	0.	0.	307.4	177.2	307.4	1.953E-06	1.942E-06	1.942E-06	
C	4.0	1.10	3218.	0.	0.	307.4	177.2	307.4	1.464E-06	1.456E-06	1.456E-06	
C	5.0	0.19	3218.	0.	0.	307.4	177.2	307.4	1.172E-06	1.166E-06	1.166E-06	
C	6.0	0.19	3218.	0.	0.	307.4	177.2	307.4	9.766E-07	9.711E-07	9.711E-07	
D	0.4	0.11	3218.	0.	0.	216.4	68.3	278.0	4.040E-05	5.085E-05	4.040E-05	
D	0.5	0.05	3218.	0.	0.	216.4	68.3	278.0	3.355E-05	4.222E-05	3.355E-05	
D	0.7	0.48	3218.	0.	0.	216.4	68.3	278.0	2.237E-05	2.815E-05	2.237E-05	
D	1.0	1.01	3218.	0.	0.	216.4	68.3	278.0	1.677E-05	2.111E-05	1.677E-05	
D	1.2	1.06	3218.	0.	0.	216.4	68.3	278.0	1.342E-05	1.689E-05	1.342E-05	
D	1.5	1.73	3218.	0.	0.	216.4	68.3	278.0	1.118E-05	1.407E-05	1.118E-05	
D	2.0	4.17	3218.	0.	0.	216.4	68.3	278.0	8.406E-06	1.058E-05	8.406E-06	
D	3.0	12.09	3218.	0.	0.	216.4	68.3	250.4	6.218E-06	7.048E-06	6.218E-06	
D	4.0	10.84	3218.	0.	0.	216.4	68.3	234.5	4.977E-06	5.284E-06	4.977E-06	
D	5.0	6.62	3218.	0.	0.	216.4	68.3	224.1	4.170E-06	4.230E-06	4.170E-06	
D	6.0	3.64	3218.	0.	0.	216.4	68.3	216.5	3.595E-06	3.524E-06	3.524E-06	
D	8.0	2.45	3218.	0.	0.	216.4	68.3	216.4	2.696E-06	2.642E-06	2.642E-06	

D	10.0	0.53	3218.	0.	0.	216.4	68.3	216.4	2.158E-06	2.114E-06	2.114E-06
E	0.4	0.16	3218.	0.	0.	153.9	45.0	241.5	7.076E-05	1.063E-04	7.076E-05
E	0.5	0.10	3218.	0.	0.	153.9	45.0	241.5	5.875E-05	8.830E-05	5.875E-05
E	0.7	0.91	3218.	0.	0.	153.9	45.0	241.5	3.917E-05	5.887E-05	3.917E-05
E	1.0	0.86	3218.	0.	0.	153.9	45.0	241.5	2.938E-05	4.415E-05	2.938E-05
E	1.2	1.63	3218.	0.	0.	153.9	45.0	241.5	2.350E-05	3.532E-05	2.350E-05
E	1.5	1.73	3218.	0.	0.	153.9	45.0	241.5	1.958E-05	2.943E-05	1.958E-05
E	2.0	3.26	3218.	0.	0.	153.9	45.0	241.5	1.472E-05	2.213E-05	1.472E-05
E	3.0	6.67	3218.	0.	0.	153.9	45.0	198.1	1.195E-05	1.474E-05	1.195E-05
E	4.0	4.89	3218.	0.	0.	153.9	45.0	176.1	1.008E-05	1.105E-05	1.008E-05
E	5.0	3.02	3218.	0.	0.	153.9	45.0	162.9	8.722E-06	8.846E-06	8.722E-06
E	6.0	1.87	3218.	0.	0.	153.9	45.0	154.1	7.682E-06	7.370E-06	7.370E-06
E	8.0	2.16	3218.	0.	0.	153.9	45.0	153.9	5.768E-06	5.525E-06	5.525E-06
E	10.0	0.53	3218.	0.	0.	153.9	45.0	153.9	4.615E-06	4.421E-06	4.421E-06
F	0.4	0.09	3218.	0.	0.	106.2	28.6	196.9	1.365E-04	2.299E-04	1.365E-04
F	0.5	0.05	3218.	0.	0.	106.2	28.6	196.9	1.133E-04	1.909E-04	1.133E-04
F	0.7	0.34	3218.	0.	0.	106.2	28.6	196.9	7.554E-05	1.273E-04	7.554E-05
F	1.0	0.43	3218.	0.	0.	106.2	28.6	196.9	5.665E-05	9.545E-05	5.665E-05
F	1.2	0.34	3218.	0.	0.	106.2	28.6	196.9	4.532E-05	7.636E-05	4.532E-05
F	1.5	0.14	3218.	0.	0.	106.2	28.6	196.9	3.777E-05	6.363E-05	3.777E-05
F	2.0	0.67	3218.	0.	0.	106.2	28.6	196.9	2.839E-05	4.783E-05	2.839E-05
F	3.0	0.29	3218.	0.	0.	106.2	28.6	148.9	2.500E-05	3.186E-05	2.500E-05
F	4.0	0.19	3218.	0.	0.	106.2	28.6	126.7	2.203E-05	2.389E-05	2.203E-05
F	5.0	0.10	3218.	0.	0.	106.2	28.6	114.3	1.955E-05	1.912E-05	1.912E-05
F	6.0	0.05	3218.	0.	0.	106.2	28.6	106.4	1.749E-05	1.593E-05	1.593E-05
F	8.0	0.10	3218.	0.	0.	106.2	28.6	106.2	1.314E-05	1.194E-05	1.194E-05
F	10.0	0.05	3218.	0.	0.	106.2	28.6	106.2	1.051E-05	9.558E-06	9.558E-06
G	0.4	0.11	3218.	0.	0.	73.3	18.2	177.6	2.378E-04	4.692E-04	2.378E-04
G	0.5	0.19	3218.	0.	0.	73.3	18.2	177.6	1.975E-04	3.896E-04	1.975E-04
G	0.7	0.24	3218.	0.	0.	73.3	18.2	177.6	1.317E-04	2.597E-04	1.317E-04
G	1.0	0.38	3218.	0.	0.	73.3	18.2	177.6	9.875E-05	1.948E-04	9.875E-05
G	1.2	0.34	3218.	0.	0.	73.3	18.2	177.6	7.900E-05	1.558E-04	7.900E-05
G	1.5	0.05	3218.	0.	0.	73.3	18.2	177.6	6.583E-05	1.299E-04	6.583E-05
G	2.0	0.34	3218.	0.	0.	73.3	18.2	177.6	4.948E-05	9.762E-05	4.948E-05
G	3.0	0.38	3218.	0.	0.	73.3	18.2	117.6	4.979E-05	6.503E-05	4.979E-05
G	4.0	0.24	3218.	0.	0.	73.3	18.2	93.2	4.711E-05	4.876E-05	4.711E-05
G	5.0	0.38	3218.	0.	0.	73.3	18.2	80.8	4.350E-05	3.903E-05	3.903E-05
G	6.0	0.05	3218.	0.	0.	73.3	18.2	73.5	3.983E-05	3.252E-05	3.252E-05

USNRC COMPUTER CODE-PAVAN, VERSION 2.0

RUN DATE: 03/07/07

PLANT NAME: Oyster Creek

METEOROLOGICAL INSTRUMENTATION

DATA PERIOD:

WIND SENSORS HEIGHT: Ground

TYPE OF RELEASE: Ground Release

DELTA-T HEIGHTS: 10.1-45.7 meters

SOURCE OF DATA:

COMMENTS: Oyster Creek, Ground Release, 1995-1999 met data

PROGRAM: PAVAN, 10/76, 8/79 REVISION, IMPLEMENTATION OF REGULATORY GUIDE 1.145

LOW POPULATION ZONE CALCULATIONS:

SW SECTOR BOUNDARY DISTANCE = 3218.0 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= 1913. D= 44.8

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.

2.378E-04	1.975E-04	1.365E-04	1.317E-04	1.133E-04	9.875E-05	7.900E-05	7.554E-05	7.076E-05	6.583E-05
0.115	0.307	0.401	0.641	0.689	1.073	1.408	1.744	1.905	1.953
0.00566	0.01514	0.01982	0.03166	0.03403	0.05298	0.06956	0.08615	0.09408	0.09645
5.875E-05	5.665E-05	4.979E-05	4.948E-05	4.711E-05	4.532E-05	4.040E-05	3.917E-05	3.903E-05	3.777E-05
2.049	2.480	2.864	3.200	3.440	3.775	3.884	4.795	5.179	5.323
0.10119	0.12251	0.14146	0.15804	0.16988	0.18646	0.19183	0.23684	0.25579	0.26289
3.355E-05	3.252E-05	2.938E-05	2.839E-05	2.500E-05	2.350E-05	2.237E-05	2.203E-05	1.958E-05	1.912E-05
5.371	5.419	6.282	6.953	7.241	8.872	9.351	9.543	11.270	11.366
0.26526	0.26763	0.31027	0.34343	0.35765	0.43819	0.46187	0.47135	0.55663	0.56137
1.677E-05	1.593E-05	1.472E-05	1.342E-05	1.195E-05	1.194E-05	1.118E-05	1.008E-05	9.558E-06	8.722E-06
12.373	12.421	15.682	16.737	23.404	23.500	25.226	30.118	30.166	33.188
0.61111	0.61348	0.77456	0.82667	1.15594	1.16068	1.24596	1.48758	1.48995	1.63918
8.406E-06	7.758E-06	7.370E-06	6.218E-06	5.818E-06	5.525E-06	4.977E-06	4.655E-06	4.421E-06	4.170E-06
37.360	37.408	39.279	51.365	51.509	53.667	64.506	64.554	65.081	71.700
1.84527	1.84764	1.94002	2.53697	2.54407	2.65067	3.18603	3.18839	3.21445	3.54135
3.879E-06	3.524E-06	2.916E-06	2.642E-06	2.114E-06	2.002E-06	1.942E-06	1.601E-06	1.456E-06	1.425E-06
71.796	75.441	75.921	78.366	78.894	78.942	79.949	80.093	81.196	81.200
3.54609	3.72612	3.74981	3.87062	3.89667	3.89904	3.94879	3.95589	4.01038	4.01054
1.334E-06	1.166E-06	1.003E-06	9.711E-07	6.682E-07	5.918E-07	5.010E-07	4.734E-07	4.011E-07	3.945E-07
81.439	81.631	81.967	82.159	83.837	83.885	85.324	85.420	86.091	86.187
4.02239	4.03186	4.04844	4.05792	4.14083	4.14320	4.21426	4.21900	4.25216	4.25690
3.341E-07	2.965E-07	2.505E-07	1.975E-07	1.481E-07	1.186E-07	9.877E-08	7.405E-08		
86.571	87.195	87.290	89.401	94.053	97.890	99.377	100.000		
4.27585	4.30665	4.31138	4.41561	4.64539	4.83489	4.90833	4.93912		

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)= 0.086  
 HANDCHECK GRAPH: SLOPE LT -1.0 FOR LOW PERCENTAGES. XSAVE ( 4)= 0.186  
 HANDCHECK GRAPH: SLOPE LT -1.0 FOR LOW PERCENTAGES. XSAVE ( 5)= 0.256  
 HANDCHECK GRAPH: SLOPE LT -1.0 FOR LOW PERCENTAGES. XSAVE ( 6)= 0.471  
 HANDCHECK GRAPH: SLOPE LT -1.0 FOR LOW PERCENTAGES. XSAVE ( 7)= 1.159  
 HANDCHECK GRAPH: SLOPE LT -1.0 FOR LOW PERCENTAGES. XSAVE ( 8)= 1.486  
 HANDCHECK GRAPH: SLOPE LT -1.0 FOR LOW PERCENTAGES. XSAVE ( 9)= 1.843  
 HANDCHECK GRAPH: SLOPE LT -1.0 FOR LOW PERCENTAGES. XSAVE(10)= 3.183

K	I	XQSAVE(K, I)	XQINT(K, I)	XQSLOP(K, I)
3	1	-8.34389	-11.24605	-0.75179
3	2	-8.52979	-15.78661	-2.00850
3	3	-9.49091	-16.33370	-2.18303
3	4	-10.00173	-14.31381	-1.48665
3	5	-10.15117	-18.02222	-2.81107
3	6	-10.72307	-15.59538	-1.87644
3	7	-11.33522	-15.32543	-1.75754
3	8	-11.50485	-16.06824	-2.09924
3	9	-11.68659	-16.38697	-2.25194
3	10	-12.21064	NUMXQ(K)= 10	
		1.041E-04	0.049	1.000
		5.295E-05	0.148	3.000
		3.969E-05	0.247	5.000
		2.138E-05	0.494	10.000
		1.634E-05	0.741	15.000
		1.339E-05	0.988	20.000
		1.146E-05	1.235	25.000
		1.011E-05	1.482	30.000
		8.887E-06	1.729	35.000
		7.892E-06	1.976	40.000
		7.067E-06	2.223	45.000
		6.392E-06	2.470	50.000
		5.828E-06	2.717	55.000
		5.350E-06	2.963	60.000
		2.121E-05	0.5	10.12

ANNUAL AVERAGE = 2.26E-07

K= 3 FIVEXQ(K)= 2.121E-05 FIVEPR(K)=10.123

USNRC COMPUTER CODE-PAVAN, VERSION 2.0

RUN DATE: 03/07/07

PLANT NAME: Oyster Creek

METEOROLOGICAL INSTRUMENTATION

DATA PERIOD:

WIND SENSORS HEIGHT: Ground

TYPE OF RELEASE: Ground Release

DELTA-T HEIGHTS: 10.1-45.7 meters

SOURCE OF DATA:

COMMENTS: Oyster Creek, Ground Release, 1995-1999 met data

PROGRAM: PAVAN, 10/76, 8/79 REVISION, IMPLEMENTATION OF REGULATORY GUIDE 1.145

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

CLASS	METER/SEC AT 10.0 METERS	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	USED	
										CA= 957.SQ.METERS		
A	0.4	0.00	3218.	0.	0.	538.2	1000.0	538.2	1.426E-06	1.425E-06	1.425E-06	
A	1.0	0.10	3218.	0.	0.	538.2	1000.0	538.2	5.921E-07	5.918E-07	5.918E-07	
A	1.5	0.58	3218.	0.	0.	538.2	1000.0	538.2	3.947E-07	3.945E-07	3.945E-07	
A	2.0	2.20	3218.	0.	0.	538.2	1000.0	538.2	2.967E-07	2.965E-07	2.965E-07	
A	3.0	3.30	3218.	0.	0.	538.2	1000.0	538.2	1.977E-07	1.975E-07	1.975E-07	
A	4.0	9.86	3218.	0.	0.	538.2	1000.0	538.2	1.482E-07	1.481E-07	1.481E-07	
A	5.0	8.34	3218.	0.	0.	538.2	1000.0	538.2	1.186E-07	1.186E-07	1.186E-07	
A	6.0	3.09	3218.	0.	0.	538.2	1000.0	538.2	9.883E-08	9.877E-08	9.877E-08	
A	8.0	0.68	3218.	0.	0.	538.2	1000.0	538.2	7.409E-08	7.405E-08	7.405E-08	
B	0.7	0.05	3218.	0.	0.	404.8	392.6	404.8	2.674E-06	2.669E-06	2.669E-06	
B	1.0	0.10	3218.	0.	0.	404.8	392.6	404.8	2.006E-06	2.002E-06	2.002E-06	
B	1.2	0.10	3218.	0.	0.	404.8	392.6	404.8	1.604E-06	1.601E-06	1.601E-06	
B	1.5	0.16	3218.	0.	0.	404.8	392.6	404.8	1.337E-06	1.334E-06	1.334E-06	
B	2.0	0.58	3218.	0.	0.	404.8	392.6	404.8	1.005E-06	1.003E-06	1.003E-06	
B	3.0	2.20	3218.	0.	0.	404.8	392.6	404.8	6.695E-07	6.682E-07	6.682E-07	
B	4.0	2.20	3218.	0.	0.	404.8	392.6	404.8	5.019E-07	5.010E-07	5.010E-07	
B	5.0	0.94	3218.	0.	0.	404.8	392.6	404.8	4.018E-07	4.011E-07	4.011E-07	
B	6.0	0.31	3218.	0.	0.	404.8	392.6	404.8	3.348E-07	3.341E-07	3.341E-07	
C	1.2	0.10	3218.	0.	0.	307.4	177.2	307.4	4.681E-06	4.655E-06	4.655E-06	
C	1.5	0.10	3218.	0.	0.	307.4	177.2	307.4	3.900E-06	3.879E-06	3.879E-06	
C	2.0	0.31	3218.	0.	0.	307.4	177.2	307.4	2.932E-06	2.916E-06	2.916E-06	
C	3.0	0.73	3218.	0.	0.	307.4	177.2	307.4	1.953E-06	1.942E-06	1.942E-06	
C	4.0	1.15	3218.	0.	0.	307.4	177.2	307.4	1.464E-06	1.456E-06	1.456E-06	
C	5.0	0.58	3218.	0.	0.	307.4	177.2	307.4	1.172E-06	1.166E-06	1.166E-06	
C	6.0	0.16	3218.	0.	0.	307.4	177.2	307.4	9.766E-07	9.711E-07	9.711E-07	
D	0.4	0.08	3218.	0.	0.	216.4	68.3	278.0	4.040E-05	5.085E-05	4.040E-05	
D	0.5	0.16	3218.	0.	0.	216.4	68.3	278.0	3.355E-05	4.222E-05	3.355E-05	
D	0.7	0.16	3218.	0.	0.	216.4	68.3	278.0	2.237E-05	2.815E-05	2.237E-05	
D	1.0	0.58	3218.	0.	0.	216.4	68.3	278.0	1.677E-05	2.111E-05	1.677E-05	
D	1.2	1.05	3218.	0.	0.	216.4	68.3	278.0	1.342E-05	1.689E-05	1.342E-05	
D	1.5	2.10	3218.	0.	0.	216.4	68.3	278.0	1.118E-05	1.407E-05	1.118E-05	
D	2.0	3.99	3218.	0.	0.	216.4	68.3	278.0	8.406E-06	1.058E-05	8.406E-06	
D	3.0	7.50	3218.	0.	0.	216.4	68.3	250.4	6.218E-06	7.048E-06	6.218E-06	
D	4.0	7.87	3218.	0.	0.	216.4	68.3	234.5	4.977E-06	5.284E-06	4.977E-06	
D	5.0	6.98	3218.	0.	0.	216.4	68.3	224.1	4.170E-06	4.230E-06	4.170E-06	
D	6.0	4.51	3218.	0.	0.	216.4	68.3	216.5	3.595E-06	3.524E-06	3.524E-06	
D	8.0	2.15	3218.	0.	0.	216.4	68.3	216.4	2.696E-06	2.642E-06	2.642E-06	
D	10.0	0.37	3218.	0.	0.	216.4	68.3	216.4	2.158E-06	2.114E-06	2.114E-06	
E	0.4	0.12	3218.	0.	0.	153.9	45.0	241.5	7.076E-05	1.063E-04	7.076E-05	

E	0.5	0.05	3218.	0.	0.	153.9	45.0	241.5	5.875E-05	8.830E-05	5.875E-05
E	0.7	0.31	3218.	0.	0.	153.9	45.0	241.5	3.917E-05	5.887E-05	3.917E-05
E	1.0	1.05	3218.	0.	0.	153.9	45.0	241.5	2.938E-05	4.415E-05	2.938E-05
E	1.2	1.21	3218.	0.	0.	153.9	45.0	241.5	2.350E-05	3.532E-05	2.350E-05
E	1.5	1.57	3218.	0.	0.	153.9	45.0	241.5	1.958E-05	2.943E-05	1.958E-05
E	2.0	3.25	3218.	0.	0.	153.9	45.0	241.5	1.472E-05	2.213E-05	1.472E-05
E	3.0	5.30	3218.	0.	0.	153.9	45.0	198.1	1.195E-05	1.474E-05	1.195E-05
E	4.0	2.99	3218.	0.	0.	153.9	45.0	176.1	1.008E-05	1.105E-05	1.008E-05
E	5.0	2.15	3218.	0.	0.	153.9	45.0	162.9	8.722E-06	8.846E-06	8.722E-06
E	6.0	1.10	3218.	0.	0.	153.9	45.0	154.1	7.682E-06	7.370E-06	7.370E-06
E	8.0	1.36	3218.	0.	0.	153.9	45.0	153.9	5.768E-06	5.525E-06	5.525E-06
E	10.0	0.47	3218.	0.	0.	153.9	45.0	153.9	4.615E-06	4.421E-06	4.421E-06
E	24.5	0.10	3218.	0.	0.	153.9	45.0	153.9	1.877E-06	1.798E-06	1.798E-06
F	0.4	0.06	3218.	0.	0.	106.2	28.6	196.9	1.365E-04	2.299E-04	1.365E-04
F	0.7	0.31	3218.	0.	0.	106.2	28.6	196.9	7.554E-05	1.273E-04	7.554E-05
F	1.0	0.26	3218.	0.	0.	106.2	28.6	196.9	5.665E-05	9.545E-05	5.665E-05
F	1.2	0.16	3218.	0.	0.	106.2	28.6	196.9	4.532E-05	7.636E-05	4.532E-05
F	1.5	0.31	3218.	0.	0.	106.2	28.6	196.9	3.777E-05	6.363E-05	3.777E-05
F	2.0	0.47	3218.	0.	0.	106.2	28.6	196.9	2.839E-05	4.783E-05	2.839E-05
F	3.0	0.31	3218.	0.	0.	106.2	28.6	148.9	2.500E-05	3.186E-05	2.500E-05
F	4.0	0.10	3218.	0.	0.	106.2	28.6	126.7	2.203E-05	2.389E-05	2.203E-05
F	10.0	0.10	3218.	0.	0.	106.2	28.6	106.2	1.051E-05	9.558E-06	9.558E-06
G	0.4	0.07	3218.	0.	0.	73.3	18.2	177.6	2.378E-04	4.692E-04	2.378E-04
G	0.5	0.10	3218.	0.	0.	73.3	18.2	177.6	1.975E-04	3.896E-04	1.975E-04
G	0.7	0.26	3218.	0.	0.	73.3	18.2	177.6	1.317E-04	2.597E-04	1.317E-04
G	1.0	0.26	3218.	0.	0.	73.3	18.2	177.6	9.875E-05	1.948E-04	9.875E-05
G	1.2	0.05	3218.	0.	0.	73.3	18.2	177.6	7.900E-05	1.558E-04	7.900E-05
G	1.5	0.26	3218.	0.	0.	73.3	18.2	177.6	6.583E-05	1.299E-04	6.583E-05
G	2.0	0.26	3218.	0.	0.	73.3	18.2	177.6	4.948E-05	9.762E-05	4.948E-05
G	3.0	0.05	3218.	0.	0.	73.3	18.2	117.6	4.979E-05	6.503E-05	4.979E-05
G	4.0	0.05	3218.	0.	0.	73.3	18.2	93.2	4.711E-05	4.876E-05	4.711E-05

USNRC COMPUTER CODE-PAVAN, VERSION 2.0

RUN DATE: 03/07/07

PLANT NAME: Oyster Creek

METEOROLOGICAL INSTRUMENTATION

DATA PERIOD:

WIND SENSORS HEIGHT: Ground

TYPE OF RELEASE: Ground Release

DELTA-T HEIGHTS: 10.1-45.7 meters

SOURCE OF DATA:

COMMENTS: Oyster Creek, Ground Release, 1995-1999 met data

PROGRAM: PAVAN, 10/76, 8/79 REVISION, IMPLEMENTATION OF REGULATORY GUIDE 1.145

LOW POPULATION ZONE CALCULATIONS:

WSW SECTOR BOUNDARY DISTANCE = 3218.0 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= 1913. D= 44.8

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.

2.378E-04	1.975E-04	1.365E-04	1.317E-04	9.875E-05	7.900E-05	7.554E-05	7.076E-05	6.583E-05	5.875E-05
0.068	0.173	0.233	0.496	0.758	0.810	1.125	1.245	1.508	1.560
0.00307	0.00781	0.01053	0.02238	0.03422	0.03659	0.05081	0.05624	0.06808	0.07045
5.665E-05	4.979E-05	4.948E-05	4.711E-05	4.532E-05	4.040E-05	3.917E-05	3.777E-05	3.355E-05	2.938E-05
1.822	1.875	2.137	2.190	2.347	2.428	2.743	3.058	3.215	4.264
0.08230	0.08467	0.09651	0.09888	0.10599	0.10966	0.12387	0.13809	0.14519	0.19257
2.839E-05	2.500E-05	2.350E-05	2.237E-05	2.203E-05	1.958E-05	1.677E-05	1.472E-05	1.342E-05	1.195E-05
4.736	5.051	6.258	6.415	6.520	8.094	8.671	11.923	12.972	18.270
0.21389	0.22810	0.28259	0.28969	0.29443	0.36549	0.39155	0.53842	0.58579	0.82505
1.118E-05	1.008E-05	9.558E-06	8.722E-06	8.406E-06	7.370E-06	6.218E-06	5.525E-06	4.977E-06	4.655E-06
20.369	23.359	23.463	25.614	29.601	30.702	38.204	39.568	47.436	47.541
0.91980	1.05482	1.05956	1.15668	1.33671	1.38646	1.72520	1.78679	2.14211	2.14685
4.421E-06	4.170E-06	3.879E-06	3.524E-06	2.916E-06	2.669E-06	2.642E-06	2.114E-06	2.002E-06	1.942E-06
48.013	54.990	55.095	59.606	59.921	59.973	62.124	62.491	62.596	63.330
2.16817	2.48322	2.48796	2.69168	2.70589	2.70826	2.80538	2.82197	2.82670	2.85987
1.798E-06	1.601E-06	1.456E-06	1.425E-06	1.334E-06	1.166E-06	1.003E-06	9.711E-07	6.682E-07	5.918E-07
63.435	63.540	64.694	64.697	64.854	65.431	66.008	66.166	68.369	68.474
2.86461	2.86934	2.92146	2.92157	2.92867	2.95473	2.98079	2.98789	3.08739	3.09212
5.010E-07	4.011E-07	3.945E-07	3.341E-07	2.965E-07	1.975E-07	1.481E-07	1.186E-07	9.877E-08	7.405E-08
70.677	71.621	72.198	72.513	74.716	78.021	87.883	96.223	99.318	100.000
3.19161	3.23425	3.26031	3.27452	3.37401	3.52325	3.96859	4.34523	4.48499	4.51579

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)= 0.022  
 HANDCHECK GRAPH: SLOPE LT -1.0 FOR LOW PERCENTAGES. XSAVE ( 4)= 0.068  
 HANDCHECK GRAPH: SLOPE LT -1.0 FOR LOW PERCENTAGES. XSAVE ( 5)= 0.138  
 HANDCHECK GRAPH: SLOPE LT -1.0 FOR LOW PERCENTAGES. XSAVE ( 6)= 0.214  
 HANDCHECK GRAPH: SLOPE LT -1.0 FOR LOW PERCENTAGES. XSAVE ( 7)= 0.824  
 HANDCHECK GRAPH: SLOPE LT -1.0 FOR LOW PERCENTAGES. XSAVE ( 8)= 0.919  
 HANDCHECK GRAPH: SLOPE LT -1.0 FOR LOW PERCENTAGES. XSAVE ( 9)= 1.335  
 HANDCHECK GRAPH: SLOPE LT -1.0 FOR LOW PERCENTAGES. XSAVE(10)= 2.140  
 HANDCHECK GRAPH: SLOPE LT -1.0 FOR LOW PERCENTAGES. XSAVE(11)= 2.481

K	I	XQSAVE(K, I)	XQINT(K, I)	XQSLOP(K, I)
4	1	-8.34389	-11.63548	-0.82134
4	2	-8.52979	-14.19219	-1.49750
4	3	-8.93526	-16.84660	-2.25363
4	4	-9.62841	-18.12291	-2.65212
4	5	-10.18406	-16.46065	-2.09681
4	6	-10.46950	-15.85285	-1.88409
4	7	-11.33466	-15.31162	-1.65840
4	8	-11.40115	-16.13564	-2.00786
4	9	-11.68659	-17.79366	-2.75612
4	10	-12.21064	-17.95518	-2.83586
4	11	-12.38762	NUMXQ(K) = 11	
		8.558E-05	0.045	1.000
		3.836E-05	0.135	3.000
		2.748E-05	0.226	5.000
		1.786E-05	0.452	10.000
		1.367E-05	0.677	15.000
		1.131E-05	0.903	20.000
		9.580E-06	1.129	25.000
		8.286E-06	1.355	30.000
		7.006E-06	1.581	35.000
		6.041E-06	1.806	40.000
		5.287E-06	2.032	45.000
		4.675E-06	2.258	50.000
		1.672E-05	0.5	11.07

ANNUAL AVERAGE = 1.61E-07

K= 4      FIVEXQ(K)= 1.672E-05      FIVEPR(K)=11.072

USNRC COMPUTER CODE-PAVAN, VERSION 2.0

RUN DATE: 03/07/07

PLANT NAME: Oyster Creek

METEOROLOGICAL INSTRUMENTATION

DATA PERIOD:

WIND SENSORS HEIGHT: Ground

TYPE OF RELEASE: Ground Release

DELTA-T HEIGHTS: 10.1-45.7 meters

SOURCE OF DATA:

COMMENTS: Oyster Creek, Ground Release, 1995-1999 met data

PROGRAM: PAVAN, 10/76, 8/79 REVISION, IMPLEMENTATION OF REGULATORY GUIDE 1.145

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

CLASS	METER/SEC AT 10.0 METERS	PERCENT	DISTANCE METERS	TERRAIN METERS	HT METERS	EFF METERS	PLUME HT	SIGMA-Y METERS	SIGMA-Z METERS	MEANDER-SY METERS	** CHI/Q VALUES (SEC/CUBIC METER)		
											MEANDER	BLDG WAKE	USED
CA= 957.SQ.METERS													
A	0.4	0.00	3218.	0.	0.	0.	538.2	1000.0	538.2	1.426E-06	1.425E-06	1.425E-06	
A	1.0	0.06	3218.	0.	0.	0.	538.2	1000.0	538.2	5.921E-07	5.918E-07	5.918E-07	
A	1.2	0.13	3218.	0.	0.	0.	538.2	1000.0	538.2	4.737E-07	4.734E-07	4.734E-07	
A	1.5	0.76	3218.	0.	0.	0.	538.2	1000.0	538.2	3.947E-07	3.945E-07	3.945E-07	
A	2.0	2.41	3218.	0.	0.	0.	538.2	1000.0	538.2	2.967E-07	2.965E-07	2.965E-07	
A	3.0	6.08	3218.	0.	0.	0.	538.2	1000.0	538.2	1.977E-07	1.975E-07	1.975E-07	
A	4.0	10.51	3218.	0.	0.	0.	538.2	1000.0	538.2	1.482E-07	1.481E-07	1.481E-07	
A	5.0	5.83	3218.	0.	0.	0.	538.2	1000.0	538.2	1.186E-07	1.186E-07	1.186E-07	
A	6.0	1.52	3218.	0.	0.	0.	538.2	1000.0	538.2	9.883E-08	9.877E-08	9.877E-08	
A	8.0	0.25	3218.	0.	0.	0.	538.2	1000.0	538.2	7.409E-08	7.405E-08	7.405E-08	
B	1.0	0.06	3218.	0.	0.	0.	404.8	392.6	404.8	2.006E-06	2.002E-06	2.002E-06	
B	1.2	0.13	3218.	0.	0.	0.	404.8	392.6	404.8	1.604E-06	1.601E-06	1.601E-06	
B	1.5	0.44	3218.	0.	0.	0.	404.8	392.6	404.8	1.337E-06	1.334E-06	1.334E-06	
B	2.0	1.14	3218.	0.	0.	0.	404.8	392.6	404.8	1.005E-06	1.003E-06	1.003E-06	
B	3.0	2.72	3218.	0.	0.	0.	404.8	392.6	404.8	6.695E-07	6.682E-07	6.682E-07	
B	4.0	1.90	3218.	0.	0.	0.	404.8	392.6	404.8	5.019E-07	5.010E-07	5.010E-07	
B	5.0	0.44	3218.	0.	0.	0.	404.8	392.6	404.8	4.018E-07	4.011E-07	4.011E-07	
B	6.0	0.57	3218.	0.	0.	0.	404.8	392.6	404.8	3.348E-07	3.341E-07	3.341E-07	
B	8.0	0.13	3218.	0.	0.	0.	404.8	392.6	404.8	2.510E-07	2.505E-07	2.505E-07	
C	0.7	0.06	3218.	0.	0.	0.	307.4	177.2	307.4	7.801E-06	7.758E-06	7.758E-06	
C	1.0	0.06	3218.	0.	0.	0.	307.4	177.2	307.4	5.851E-06	5.818E-06	5.818E-06	
C	1.5	0.13	3218.	0.	0.	0.	307.4	177.2	307.4	3.900E-06	3.879E-06	3.879E-06	
C	2.0	0.44	3218.	0.	0.	0.	307.4	177.2	307.4	2.932E-06	2.916E-06	2.916E-06	
C	3.0	1.39	3218.	0.	0.	0.	307.4	177.2	307.4	1.953E-06	1.942E-06	1.942E-06	
C	4.0	0.63	3218.	0.	0.	0.	307.4	177.2	307.4	1.464E-06	1.456E-06	1.456E-06	
C	5.0	0.19	3218.	0.	0.	0.	307.4	177.2	307.4	1.172E-06	1.166E-06	1.166E-06	
C	6.0	0.38	3218.	0.	0.	0.	307.4	177.2	307.4	9.766E-07	9.711E-07	9.711E-07	
C	8.0	0.06	3218.	0.	0.	0.	307.4	177.2	307.4	7.322E-07	7.281E-07	7.281E-07	
D	0.4	0.08	3218.	0.	0.	0.	216.4	68.3	278.0	4.040E-05	5.085E-05	4.040E-05	
D	0.7	0.25	3218.	0.	0.	0.	216.4	68.3	278.0	2.237E-05	2.815E-05	2.237E-05	
D	1.0	0.70	3218.	0.	0.	0.	216.4	68.3	278.0	1.677E-05	2.111E-05	1.677E-05	
D	1.2	1.01	3218.	0.	0.	0.	216.4	68.3	278.0	1.342E-05	1.689E-05	1.342E-05	
D	1.5	1.39	3218.	0.	0.	0.	216.4	68.3	278.0	1.118E-05	1.407E-05	1.118E-05	
D	2.0	4.12	3218.	0.	0.	0.	216.4	68.3	278.0	8.406E-06	1.058E-05	8.406E-06	
D	3.0	8.42	3218.	0.	0.	0.	216.4	68.3	250.4	6.218E-06	7.048E-06	6.218E-06	
D	4.0	5.89	3218.	0.	0.	0.	216.4	68.3	234.5	4.977E-06	5.284E-06	4.977E-06	
D	5.0	6.02	3218.	0.	0.	0.	216.4	68.3	224.1	4.170E-06	4.230E-06	4.170E-06	
D	6.0	3.04	3218.	0.	0.	0.	216.4	68.3	216.5	3.595E-06	3.524E-06	3.524E-06	
D	8.0	1.52	3218.	0.	0.	0.	216.4	68.3	216.4	2.696E-06	2.642E-06	2.642E-06	
D	10.0	0.63	3218.	0.	0.	0.	216.4	68.3	216.4	2.158E-06	2.114E-06	2.114E-06	

E	0.4	0.15	3218.	0.	0.	153.9	45.0	241.5	7.076E-05	1.063E-04	7.076E-05
E	0.5	0.19	3218.	0.	0.	153.9	45.0	241.5	5.875E-05	8.830E-05	5.875E-05
E	0.7	0.38	3218.	0.	0.	153.9	45.0	241.5	3.917E-05	5.887E-05	3.917E-05
E	1.0	1.14	3218.	0.	0.	153.9	45.0	241.5	2.938E-05	4.415E-05	2.938E-05
E	1.2	1.58	3218.	0.	0.	153.9	45.0	241.5	2.350E-05	3.532E-05	2.350E-05
E	1.5	2.15	3218.	0.	0.	153.9	45.0	241.5	1.958E-05	2.943E-05	1.958E-05
E	2.0	3.42	3218.	0.	0.	153.9	45.0	241.5	1.472E-05	2.213E-05	1.472E-05
E	3.0	5.83	3218.	0.	0.	153.9	45.0	198.1	1.195E-05	1.474E-05	1.195E-05
E	4.0	4.43	3218.	0.	0.	153.9	45.0	176.1	1.008E-05	1.105E-05	1.008E-05
E	5.0	3.04	3218.	0.	0.	153.9	45.0	162.9	8.722E-06	8.846E-06	8.722E-06
E	6.0	1.01	3218.	0.	0.	153.9	45.0	154.1	7.682E-06	7.370E-06	7.370E-06
E	8.0	0.38	3218.	0.	0.	153.9	45.0	153.9	5.768E-06	5.525E-06	5.525E-06
E	10.0	0.19	3218.	0.	0.	153.9	45.0	153.9	4.615E-06	4.421E-06	4.421E-06
E	24.5	0.13	3218.	0.	0.	153.9	45.0	153.9	1.877E-06	1.798E-06	1.798E-06
F	0.4	0.10	3218.	0.	0.	106.2	28.6	196.9	1.365E-04	2.299E-04	1.365E-04
F	0.7	0.51	3218.	0.	0.	106.2	28.6	196.9	7.554E-05	1.273E-04	7.554E-05
F	1.0	0.57	3218.	0.	0.	106.2	28.6	196.9	5.665E-05	9.545E-05	5.665E-05
F	1.2	0.13	3218.	0.	0.	106.2	28.6	196.9	4.532E-05	7.636E-05	4.532E-05
F	1.5	0.38	3218.	0.	0.	106.2	28.6	196.9	3.777E-05	6.363E-05	3.777E-05
F	2.0	0.51	3218.	0.	0.	106.2	28.6	196.9	2.839E-05	4.783E-05	2.839E-05
F	3.0	0.25	3218.	0.	0.	106.2	28.6	148.9	2.500E-05	3.186E-05	2.500E-05
F	4.0	0.06	3218.	0.	0.	106.2	28.6	126.7	2.203E-05	2.389E-05	2.203E-05
F	5.0	0.06	3218.	0.	0.	106.2	28.6	114.3	1.955E-05	1.912E-05	1.912E-05
G	0.4	0.11	3218.	0.	0.	73.3	18.2	177.6	2.378E-04	4.692E-04	2.378E-04
G	0.5	0.13	3218.	0.	0.	73.3	18.2	177.6	1.975E-04	3.896E-04	1.975E-04
G	0.7	0.51	3218.	0.	0.	73.3	18.2	177.6	1.317E-04	2.597E-04	1.317E-04
G	1.0	0.32	3218.	0.	0.	73.3	18.2	177.6	9.875E-05	1.948E-04	9.875E-05
G	1.2	0.13	3218.	0.	0.	73.3	18.2	177.6	7.900E-05	1.558E-04	7.900E-05
G	1.5	0.19	3218.	0.	0.	73.3	18.2	177.6	6.583E-05	1.299E-04	6.583E-05
G	2.0	0.38	3218.	0.	0.	73.3	18.2	177.6	4.948E-05	9.762E-05	4.948E-05
G	3.0	0.06	3218.	0.	0.	73.3	18.2	117.6	4.979E-05	6.503E-05	4.979E-05
G	4.0	0.06	3218.	0.	0.	73.3	18.2	93.2	4.711E-05	4.876E-05	4.711E-05

USNRC COMPUTER CODE-PAVAN, VERSION 2.0

RUN DATE: 03/07/07

PLANT NAME: Oyster Creek

METEOROLOGICAL INSTRUMENTATION

DATA PERIOD:

WIND SENSORS HEIGHT: Ground

TYPE OF RELEASE: Ground Release

DELTA-T HEIGHTS: 10.1-45.7 meters

SOURCE OF DATA:

COMMENTS: Oyster Creek, Ground Release, 1995-1999 met data

PROGRAM: PAVAN, 10/76, 8/79 REVISION, IMPLEMENTATION OF REGULATORY GUIDE 1.145

LOW POPULATION ZONE CALCULATIONS:

W SECTOR BOUNDARY DISTANCE = 3218.0 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= 1913. D= 44.8

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.

2.378E-04	1.975E-04	1.365E-04	1.317E-04	9.875E-05	7.900E-05	7.554E-05	7.076E-05	6.583E-05	5.875E-05
0.107	0.234	0.333	0.840	1.156	1.283	1.790	1.941	2.131	2.321
0.00401	0.00875	0.01245	0.03140	0.04325	0.04799	0.06694	0.07259	0.07970	0.08680
5.665E-05	4.979E-05	4.948E-05	4.711E-05	4.532E-05	4.040E-05	3.917E-05	3.777E-05	2.938E-05	2.839E-05
2.891	2.954	3.334	3.397	3.524	3.606	3.986	4.366	5.506	6.013
0.10812	0.11049	0.12470	0.12707	0.13181	0.13489	0.14910	0.16332	0.20595	0.22490
2.500E-05	2.350E-05	2.237E-05	2.203E-05	1.958E-05	1.912E-05	1.677E-05	1.472E-05	1.342E-05	1.195E-05
6.266	7.849	8.103	8.166	10.319	10.383	11.079	14.499	15.512	21.339
0.23438	0.29360	0.30308	0.30544	0.38598	0.38835	0.41441	0.54233	0.58023	0.79816
1.118E-05	1.008E-05	8.722E-06	8.406E-06	7.758E-06	7.370E-06	6.218E-06	5.818E-06	5.525E-06	4.977E-06
22.732	27.165	30.205	34.322	34.385	35.398	43.821	43.885	44.265	50.154
0.85027	1.01609	1.12980	1.28377	1.28614	1.32404	1.63909	1.64146	1.65568	1.87598
4.421E-06	4.170E-06	3.879E-06	3.524E-06	2.916E-06	2.642E-06	2.114E-06	2.002E-06	1.942E-06	1.798E-06
50.344	56.361	56.487	59.527	59.971	61.491	62.124	62.187	63.580	63.707
1.88308	2.10812	2.11286	2.22656	2.24314	2.30000	2.32368	2.32605	2.37817	2.38291
1.601E-06	1.456E-06	1.425E-06	1.334E-06	1.166E-06	1.003E-06	9.711E-07	7.281E-07	6.682E-07	5.918E-07
63.834	64.467	64.471	64.915	65.105	66.245	66.625	66.688	69.411	69.475
2.38764	2.41133	2.41150	2.42808	2.43518	2.47782	2.49204	2.49441	2.59627	2.59863
5.010E-07	4.734E-07	4.011E-07	3.945E-07	3.341E-07	2.965E-07	2.505E-07	1.975E-07	1.481E-07	1.186E-07
71.375	71.501	71.945	72.704	73.274	75.681	75.808	81.887	92.400	98.227
2.66970	2.67444	2.69102	2.71944	2.74076	2.83078	2.83552	3.06292	3.45615	3.67408
9.877E-08	7.405E-08								
99.747	100.000								
3.73093	3.74041								

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)= 0.031  
HANDCHECK GRAPH: SLOPE LT -1.0 FOR LOW PERCENTAGES. XSAVE ( 4)= 0.108  
HANDCHECK GRAPH: SLOPE LT -1.0 FOR LOW PERCENTAGES. XSAVE ( 5)= 0.225  
HANDCHECK GRAPH: SLOPE LT -1.0 FOR LOW PERCENTAGES. XSAVE ( 6)= 0.386  
HANDCHECK GRAPH: SLOPE LT -1.0 FOR LOW PERCENTAGES. XSAVE ( 7)= 1.015  
HANDCHECK GRAPH: SLOPE LT -1.0 FOR LOW PERCENTAGES. XSAVE ( 8)= 1.282  
HANDCHECK GRAPH: SLOPE LT -1.0 FOR LOW PERCENTAGES. XSAVE ( 9)= 1.637  
HANDCHECK GRAPH: SLOPE LT -1.0 FOR LOW PERCENTAGES. XSAVE(10)= 2.106

K	I	XQSAVE(K, I)	XQINT(K, I)	XQSLOP(K, I)
5	1	-8.34389	-12.18191	-0.97319
5	2	-8.52979	-13.09427	-1.21631
5	3	-8.93526	-17.12475	-2.39502
5	4	-9.77859	-19.15685	-3.05753
5	5	-10.46950	-16.43599	-2.09992
5	6	-10.84079	-15.98894	-1.93214
5	7	-11.50485	-16.23018	-2.03609
5	8	-11.68659	-18.66959	-3.12924
5	9	-11.98807	-20.28386	-3.88527
5	10	-12.38762	NUMXQ(K)= 10	
		1.174E-04	0.037	1.000
		5.476E-05	0.112	3.000
		3.393E-05	0.187	5.000
		2.002E-05	0.374	10.000
		1.528E-05	0.561	15.000
		1.254E-05	0.748	20.000
		1.070E-05	0.935	25.000
		9.339E-06	1.122	30.000
		8.208E-06	1.309	35.000
		6.967E-06	1.496	40.000
		5.966E-06	1.683	45.000
		5.053E-06	1.870	50.000
		4.338E-06	2.057	55.000
		1.651E-05	0.5	13.37

ANNUAL AVERAGE = 1.53E-07

K= 5 FIVEXQ(K)= 1.651E-05 FIVEPR(K)=13.368

USNRC COMPUTER CODE-PAVAN, VERSION 2.0

RUN DATE: 03/07/07

PLANT NAME: Oyster Creek  
 DATA PERIOD:  
 TYPE OF RELEASE: Ground Release  
 SOURCE OF DATA:  
 COMMENTS: Oyster Creek, Ground Release, 1995-1999 met data  
 PROGRAM: PAVAN, 10/76, 8/79 REVISION, IMPLEMENTATION OF REGULATORY GUIDE 1.145

METEOROLOGICAL INSTRUMENTATION  
 WIND SENSORS HEIGHT: Ground  
 DELTA-T HEIGHTS: 10.1-45.7 meters

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

CLASS	METER/SEC	PERCENT	METERS	METERS	METERS	SIGMA-Y	SIGMA-Z	MEANDER-SY	** CHI/Q VALUES (SEC/CUBIC METER)			
									MEANDER	BLDG WAKE	USED	
AT 10.0 METERS												
A	0.4	0.01	3218.	0.	0.	538.2	1000.0	538.2	1.426E-06	1.425E-06	1.425E-06	
A	1.2	0.27	3218.	0.	0.	538.2	1000.0	538.2	4.737E-07	4.734E-07	4.734E-07	
A	1.5	0.35	3218.	0.	0.	538.2	1000.0	538.2	3.947E-07	3.945E-07	3.945E-07	
A	2.0	2.13	3218.	0.	0.	538.2	1000.0	538.2	2.967E-07	2.965E-07	2.965E-07	
A	3.0	9.76	3218.	0.	0.	538.2	1000.0	538.2	1.977E-07	1.975E-07	1.975E-07	
A	4.0	16.15	3218.	0.	0.	538.2	1000.0	538.2	1.482E-07	1.481E-07	1.481E-07	
A	5.0	5.15	3218.	0.	0.	538.2	1000.0	538.2	1.186E-07	1.186E-07	1.186E-07	
A	6.0	0.62	3218.	0.	0.	538.2	1000.0	538.2	9.883E-08	9.877E-08	9.877E-08	
B	1.5	0.27	3218.	0.	0.	404.8	392.6	404.8	1.337E-06	1.334E-06	1.334E-06	
B	2.0	0.89	3218.	0.	0.	404.8	392.6	404.8	1.005E-06	1.003E-06	1.003E-06	
B	3.0	2.57	3218.	0.	0.	404.8	392.6	404.8	6.695E-07	6.682E-07	6.682E-07	
B	4.0	3.11	3218.	0.	0.	404.8	392.6	404.8	5.019E-07	5.010E-07	5.010E-07	
B	5.0	0.44	3218.	0.	0.	404.8	392.6	404.8	4.018E-07	4.011E-07	4.011E-07	
B	6.0	0.71	3218.	0.	0.	404.8	392.6	404.8	3.348E-07	3.341E-07	3.341E-07	
C	1.2	0.27	3218.	0.	0.	307.4	177.2	307.4	4.681E-06	4.655E-06	4.655E-06	
C	1.5	0.35	3218.	0.	0.	307.4	177.2	307.4	3.900E-06	3.879E-06	3.879E-06	
C	2.0	0.44	3218.	0.	0.	307.4	177.2	307.4	2.932E-06	2.916E-06	2.916E-06	
C	3.0	1.60	3218.	0.	0.	307.4	177.2	307.4	1.953E-06	1.942E-06	1.942E-06	
C	4.0	0.89	3218.	0.	0.	307.4	177.2	307.4	1.464E-06	1.456E-06	1.456E-06	
C	5.0	0.18	3218.	0.	0.	307.4	177.2	307.4	1.172E-06	1.166E-06	1.166E-06	
C	6.0	0.09	3218.	0.	0.	307.4	177.2	307.4	9.766E-07	9.711E-07	9.711E-07	
D	0.4	0.09	3218.	0.	0.	216.4	68.3	278.0	4.040E-05	5.085E-05	4.040E-05	
D	0.5	0.18	3218.	0.	0.	216.4	68.3	278.0	3.355E-05	4.222E-05	3.355E-05	
D	0.7	0.18	3218.	0.	0.	216.4	68.3	278.0	2.237E-05	2.815E-05	2.237E-05	
D	1.0	0.89	3218.	0.	0.	216.4	68.3	278.0	1.677E-05	2.111E-05	1.677E-05	
D	1.2	0.98	3218.	0.	0.	216.4	68.3	278.0	1.342E-05	1.689E-05	1.342E-05	
D	1.5	1.51	3218.	0.	0.	216.4	68.3	278.0	1.118E-05	1.407E-05	1.118E-05	
D	2.0	3.11	3218.	0.	0.	216.4	68.3	278.0	8.406E-06	1.058E-05	8.406E-06	
D	3.0	9.23	3218.	0.	0.	216.4	68.3	250.4	6.218E-06	7.048E-06	6.218E-06	
D	4.0	8.16	3218.	0.	0.	216.4	68.3	234.5	4.977E-06	5.284E-06	4.977E-06	
D	5.0	4.17	3218.	0.	0.	216.4	68.3	224.1	4.170E-06	4.230E-06	4.170E-06	
D	6.0	1.69	3218.	0.	0.	216.4	68.3	216.5	3.595E-06	3.524E-06	3.524E-06	
D	8.0	1.42	3218.	0.	0.	216.4	68.3	216.4	2.696E-06	2.642E-06	2.642E-06	
D	10.0	0.53	3218.	0.	0.	216.4	68.3	216.4	2.158E-06	2.114E-06	2.114E-06	
D	24.5	0.18	3218.	0.	0.	216.4	68.3	216.4	8.775E-07	8.598E-07	8.598E-07	
E	0.4	0.13	3218.	0.	0.	153.9	45.0	241.5	7.076E-05	1.063E-04	7.076E-05	
E	0.5	0.44	3218.	0.	0.	153.9	45.0	241.5	5.875E-05	8.830E-05	5.875E-05	
E	0.7	0.71	3218.	0.	0.	153.9	45.0	241.5	3.917E-05	5.887E-05	3.917E-05	
E	1.0	0.27	3218.	0.	0.	153.9	45.0	241.5	2.938E-05	4.415E-05	2.938E-05	

CA= 957.SQ.METERS

E	1.2	1.33	3218.	0.	0.	153.9	45.0	241.5	2.350E-05	3.532E-05	2.350E-05
E	1.5	1.33	3218.	0.	0.	153.9	45.0	241.5	1.958E-05	2.943E-05	1.958E-05
E	2.0	1.86	3218.	0.	0.	153.9	45.0	241.5	1.472E-05	2.213E-05	1.472E-05
E	3.0	3.46	3218.	0.	0.	153.9	45.0	198.1	1.195E-05	1.474E-05	1.195E-05
E	4.0	3.90	3218.	0.	0.	153.9	45.0	176.1	1.008E-05	1.105E-05	1.008E-05
E	5.0	1.60	3218.	0.	0.	153.9	45.0	162.9	8.722E-06	8.846E-06	8.722E-06
E	6.0	0.62	3218.	0.	0.	153.9	45.0	154.1	7.682E-06	7.370E-06	7.370E-06
E	8.0	1.15	3218.	0.	0.	153.9	45.0	153.9	5.768E-06	5.525E-06	5.525E-06
F	0.4	0.10	3218.	0.	0.	106.2	28.6	196.9	1.365E-04	2.299E-04	1.365E-04
F	0.5	0.09	3218.	0.	0.	106.2	28.6	196.9	1.133E-04	1.909E-04	1.133E-04
F	0.7	0.44	3218.	0.	0.	106.2	28.6	196.9	7.554E-05	1.273E-04	7.554E-05
F	1.0	0.53	3218.	0.	0.	106.2	28.6	196.9	5.665E-05	9.545E-05	5.665E-05
F	1.2	0.18	3218.	0.	0.	106.2	28.6	196.9	4.532E-05	7.636E-05	4.532E-05
F	1.5	0.35	3218.	0.	0.	106.2	28.6	196.9	3.777E-05	6.363E-05	3.777E-05
F	2.0	0.27	3218.	0.	0.	106.2	28.6	196.9	2.839E-05	4.783E-05	2.839E-05
F	3.0	0.35	3218.	0.	0.	106.2	28.6	148.9	2.500E-05	3.186E-05	2.500E-05
F	4.0	0.09	3218.	0.	0.	106.2	28.6	126.7	2.203E-05	2.389E-05	2.203E-05
F	5.0	0.35	3218.	0.	0.	106.2	28.6	114.3	1.955E-05	1.912E-05	1.912E-05
F	8.0	0.09	3218.	0.	0.	106.2	28.6	106.2	1.314E-05	1.194E-05	1.194E-05
G	0.4	0.13	3218.	0.	0.	73.3	18.2	177.6	2.378E-04	4.692E-04	2.378E-04
G	0.5	0.09	3218.	0.	0.	73.3	18.2	177.6	1.975E-04	3.896E-04	1.975E-04
G	0.7	0.44	3218.	0.	0.	73.3	18.2	177.6	1.317E-04	2.597E-04	1.317E-04
G	1.0	0.53	3218.	0.	0.	73.3	18.2	177.6	9.875E-05	1.948E-04	9.875E-05
G	1.2	0.27	3218.	0.	0.	73.3	18.2	177.6	7.900E-05	1.558E-04	7.900E-05
G	1.5	0.09	3218.	0.	0.	73.3	18.2	177.6	6.583E-05	1.299E-04	6.583E-05
G	3.0	0.18	3218.	0.	0.	73.3	18.2	117.6	4.979E-05	6.503E-05	4.979E-05
G	4.0	0.09	3218.	0.	0.	73.3	18.2	93.2	4.711E-05	4.876E-05	4.711E-05

USNRC COMPUTER CODE-PAVAN, VERSION 2.0

RUN DATE: 03/07/07

PLANT NAME: Oyster Creek

METEOROLOGICAL INSTRUMENTATION

DATA PERIOD:

WIND SENSORS HEIGHT: Ground

TYPE OF RELEASE: Ground Release

DELTA-T HEIGHTS: 10.1-45.7 meters

SOURCE OF DATA:

COMMENTS: Oyster Creek, Ground Release, 1995-1999 met data

PROGRAM: PAVAN, 10/76, 8/79 REVISION, IMPLEMENTATION OF REGULATORY GUIDE 1.145

LOW POPULATION ZONE CALCULATIONS:

WNW SECTOR      BOUNDARY DISTANCE = 3218.0 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= 1913.      D= 44.8

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.

2.378E-04	1.975E-04	1.365E-04	1.317E-04	1.133E-04	9.875E-05	7.900E-05	7.554E-05	7.076E-05	6.583E-05
0.133	0.221	0.324	0.767	0.856	1.388	1.654	2.098	2.224	2.313
0.00354	0.00591	0.00864	0.02048	0.02285	0.03706	0.04417	0.05601	0.05938	0.06175
5.875E-05	5.665E-05	4.979E-05	4.711E-05	4.532E-05	4.040E-05	3.917E-05	3.777E-05	3.355E-05	2.938E-05
2.756	3.289	3.466	3.555	3.732	3.825	4.535	4.890	5.067	5.333
0.07360	0.08781	0.09255	0.09492	0.09965	0.10214	0.12109	0.13056	0.13530	0.14241
2.839E-05	2.500E-05	2.350E-05	2.237E-05	2.203E-05	1.958E-05	1.912E-05	1.677E-05	1.472E-05	1.342E-05
5.600	5.954	7.285	7.463	7.551	8.882	9.237	10.124	11.987	12.963
0.14951	0.15899	0.19452	0.19926	0.20163	0.23716	0.24664	0.27032	0.32007	0.34613
1.195E-05	1.194E-05	1.118E-05	1.008E-05	8.722E-06	8.406E-06	7.370E-06	6.218E-06	5.525E-06	4.977E-06
16.423	16.512	18.020	21.923	23.520	26.625	27.246	36.473	37.626	45.788
0.43851	0.44088	0.48115	0.58538	0.62802	0.71093	0.72751	0.97387	1.00466	1.22259
4.655E-06	4.170E-06	3.879E-06	3.524E-06	2.916E-06	2.642E-06	2.114E-06	1.942E-06	1.456E-06	1.425E-06
46.054	50.224	50.579	52.264	52.708	54.127	54.660	56.257	57.144	57.150
1.22970	1.34103	1.35051	1.39552	1.40736	1.44526	1.45948	1.50211	1.52580	1.52597
1.334E-06	1.166E-06	1.003E-06	9.711E-07	8.598E-07	6.682E-07	5.010E-07	4.734E-07	4.011E-07	3.945E-07
57.416	57.594	58.481	58.569	58.747	61.320	64.425	64.691	65.134	65.489
1.53307	1.53781	1.56150	1.56387	1.56861	1.63730	1.72021	1.72732	1.73916	1.74864
3.341E-07	2.965E-07	1.975E-07	1.481E-07	1.186E-07	9.877E-08				
66.199	68.328	78.087	94.233	99.379	100.000				
1.76759	1.82444	2.08501	2.51614	2.65353	2.67011				

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)= 0.020  
HANDCHECK GRAPH: SLOPE LT -1.0 FOR LOW PERCENTAGES. XSAVE ( 3)= 0.037  
HANDCHECK GRAPH: SLOPE LT -1.0 FOR LOW PERCENTAGES. XSAVE ( 4)= 0.088  
HANDCHECK GRAPH: SLOPE LT -1.0 FOR LOW PERCENTAGES. XSAVE ( 5)= 0.130  
HANDCHECK GRAPH: SLOPE LT -1.0 FOR LOW PERCENTAGES. XSAVE ( 6)= 0.246  
HANDCHECK GRAPH: SLOPE LT -1.0 FOR LOW PERCENTAGES. XSAVE ( 7)= 0.585  
HANDCHECK GRAPH: SLOPE LT -1.0 FOR LOW PERCENTAGES. XSAVE ( 8)= 1.221

K	I	XQSAVE(K, I)	XQINT(K, I)	XQSLOP(K, I)
6	1	-8.34389	-13.68819	-1.34493
6	2	-8.93526	-15.29309	-1.79907
6	3	-9.22294	-16.87099	-2.26673
6	4	-9.77859	-20.48795	-3.42271
6	5	-10.18406	-20.49416	-3.42477
6	6	-10.86455	-17.06205	-2.20414
6	7	-11.50485	-18.07458	-2.60574
6	8	-12.21064	NUMXQ(K)= 8	
		1.159E-04	0.027	1.000
		6.021E-05	0.080	3.000
		3.690E-05	0.134	5.000
		1.807E-05	0.267	10.000
		1.345E-05	0.401	15.000
		1.082E-05	0.534	20.000
		8.929E-06	0.668	25.000
		7.522E-06	0.801	30.000
		6.487E-06	0.935	35.000
		5.693E-06	1.068	40.000
		5.065E-06	1.202	45.000
		1.138E-05	0.5	18.73

ANNUAL AVERAGE = 1.01E-07

K= 6      FIVEXQ(K)= 1.138E-05      FIVEPR(K)=18.726

USNRC COMPUTER CODE-PAVAN, VERSION 2.0

RUN DATE: 03/07/07

PLANT NAME: Oyster Creek

METEOROLOGICAL INSTRUMENTATION

DATA PERIOD:

WIND SENSORS HEIGHT: Ground

TYPE OF RELEASE: Ground Release

DELTA-T HEIGHTS: 10.1-45.7 meters

SOURCE OF DATA:

COMMENTS: Oyster Creek, Ground Release, 1995-1999 met data

PROGRAM: PAVAN, 10/76, 8/79 REVISION, IMPLEMENTATION OF REGULATORY GUIDE 1.145

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

CLASS	METER/SEC AT 10.0 METERS	PERCENT	METERS	METERS	METERS	HT	SIGMA-Y METERS	SIGMA-Z METERS	MEANDER-SY METERS	** CHI/Q VALUES (SEC/CUBIC METER)		
										MEANDER	BLDG WAKE	USED
CA= 957.SQ.METERS												
A	0.4	0.00	3218.	0.	0.		538.2	1000.0	538.2	1.426E-06	1.425E-06	1.425E-06
A	1.0	0.06	3218.	0.	0.		538.2	1000.0	538.2	5.921E-07	5.918E-07	5.918E-07
A	1.2	0.06	3218.	0.	0.		538.2	1000.0	538.2	4.737E-07	4.734E-07	4.734E-07
A	1.5	0.23	3218.	0.	0.		538.2	1000.0	538.2	3.947E-07	3.945E-07	3.945E-07
A	2.0	1.66	3218.	0.	0.		538.2	1000.0	538.2	2.967E-07	2.965E-07	2.965E-07
A	3.0	5.26	3218.	0.	0.		538.2	1000.0	538.2	1.977E-07	1.975E-07	1.975E-07
A	4.0	11.31	3218.	0.	0.		538.2	1000.0	538.2	1.482E-07	1.481E-07	1.481E-07
A	5.0	10.22	3218.	0.	0.		538.2	1000.0	538.2	1.186E-07	1.186E-07	1.186E-07
A	6.0	3.03	3218.	0.	0.		538.2	1000.0	538.2	9.883E-08	9.877E-08	9.877E-08
A	8.0	0.17	3218.	0.	0.		538.2	1000.0	538.2	7.409E-08	7.405E-08	7.405E-08
B	0.7	0.06	3218.	0.	0.		404.8	392.6	404.8	2.674E-06	2.669E-06	2.669E-06
B	1.0	0.06	3218.	0.	0.		404.8	392.6	404.8	2.006E-06	2.002E-06	2.002E-06
B	1.2	0.11	3218.	0.	0.		404.8	392.6	404.8	1.604E-06	1.601E-06	1.601E-06
B	1.5	0.17	3218.	0.	0.		404.8	392.6	404.8	1.337E-06	1.334E-06	1.334E-06
B	2.0	0.51	3218.	0.	0.		404.8	392.6	404.8	1.005E-06	1.003E-06	1.003E-06
B	3.0	2.40	3218.	0.	0.		404.8	392.6	404.8	6.695E-07	6.682E-07	6.682E-07
B	4.0	2.46	3218.	0.	0.		404.8	392.6	404.8	5.019E-07	5.010E-07	5.010E-07
B	5.0	1.09	3218.	0.	0.		404.8	392.6	404.8	4.018E-07	4.011E-07	4.011E-07
B	6.0	0.34	3218.	0.	0.		404.8	392.6	404.8	3.348E-07	3.341E-07	3.341E-07
B	8.0	0.11	3218.	0.	0.		404.8	392.6	404.8	2.510E-07	2.505E-07	2.505E-07
C	1.0	0.06	3218.	0.	0.		307.4	177.2	307.4	5.851E-06	5.818E-06	5.818E-06
C	1.5	0.17	3218.	0.	0.		307.4	177.2	307.4	3.900E-06	3.879E-06	3.879E-06
C	2.0	0.51	3218.	0.	0.		307.4	177.2	307.4	2.932E-06	2.916E-06	2.916E-06
C	3.0	0.80	3218.	0.	0.		307.4	177.2	307.4	1.953E-06	1.942E-06	1.942E-06
C	4.0	2.17	3218.	0.	0.		307.4	177.2	307.4	1.464E-06	1.456E-06	1.456E-06
C	5.0	0.69	3218.	0.	0.		307.4	177.2	307.4	1.172E-06	1.166E-06	1.166E-06
C	6.0	0.06	3218.	0.	0.		307.4	177.2	307.4	9.766E-07	9.711E-07	9.711E-07
C	8.0	0.06	3218.	0.	0.		307.4	177.2	307.4	7.322E-07	7.281E-07	7.281E-07
D	0.4	0.11	3218.	0.	0.		216.4	68.3	278.0	4.040E-05	5.085E-05	4.040E-05
D	0.5	0.06	3218.	0.	0.		216.4	68.3	278.0	3.355E-05	4.222E-05	3.355E-05
D	0.7	0.29	3218.	0.	0.		216.4	68.3	278.0	2.237E-05	2.815E-05	2.237E-05
D	1.0	0.80	3218.	0.	0.		216.4	68.3	278.0	1.677E-05	2.111E-05	1.677E-05
D	1.2	1.60	3218.	0.	0.		216.4	68.3	278.0	1.342E-05	1.689E-05	1.342E-05
D	1.5	1.94	3218.	0.	0.		216.4	68.3	278.0	1.118E-05	1.407E-05	1.118E-05
D	2.0	4.23	3218.	0.	0.		216.4	68.3	278.0	8.406E-06	1.058E-05	8.406E-06
D	3.0	9.77	3218.	0.	0.		216.4	68.3	250.4	6.218E-06	7.048E-06	6.218E-06
D	4.0	5.83	3218.	0.	0.		216.4	68.3	234.5	4.977E-06	5.284E-06	4.977E-06
D	5.0	2.06	3218.	0.	0.		216.4	68.3	224.1	4.170E-06	4.230E-06	4.170E-06
D	6.0	1.49	3218.	0.	0.		216.4	68.3	216.5	3.595E-06	3.524E-06	3.524E-06
D	8.0	1.60	3218.	0.	0.		216.4	68.3	216.4	2.696E-06	2.642E-06	2.642E-06

D	10.0	0.23	3218.	0.	0.	216.4	68.3	216.4	2.158E-06	2.114E-06	2.114E-06
D	24.5	0.06	3218.	0.	0.	216.4	68.3	216.4	8.775E-07	8.598E-07	8.598E-07
E	0.4	0.14	3218.	0.	0.	153.9	45.0	241.5	7.076E-05	1.063E-04	7.076E-05
E	0.5	0.17	3218.	0.	0.	153.9	45.0	241.5	5.875E-05	8.830E-05	5.875E-05
E	0.7	0.46	3218.	0.	0.	153.9	45.0	241.5	3.917E-05	5.887E-05	3.917E-05
E	1.0	1.49	3218.	0.	0.	153.9	45.0	241.5	2.938E-05	4.415E-05	2.938E-05
E	1.2	1.03	3218.	0.	0.	153.9	45.0	241.5	2.350E-05	3.532E-05	2.350E-05
E	1.5	1.49	3218.	0.	0.	153.9	45.0	241.5	1.958E-05	2.943E-05	1.958E-05
E	2.0	3.88	3218.	0.	0.	153.9	45.0	241.5	1.472E-05	2.213E-05	1.472E-05
E	3.0	4.23	3218.	0.	0.	153.9	45.0	198.1	1.195E-05	1.474E-05	1.195E-05
E	4.0	2.91	3218.	0.	0.	153.9	45.0	176.1	1.008E-05	1.105E-05	1.008E-05
E	5.0	2.00	3218.	0.	0.	153.9	45.0	162.9	8.722E-06	8.846E-06	8.722E-06
E	6.0	0.63	3218.	0.	0.	153.9	45.0	154.1	7.682E-06	7.370E-06	7.370E-06
E	8.0	1.60	3218.	0.	0.	153.9	45.0	153.9	5.768E-06	5.525E-06	5.525E-06
E	10.0	0.17	3218.	0.	0.	153.9	45.0	153.9	4.615E-06	4.421E-06	4.421E-06
E	24.5	0.06	3218.	0.	0.	153.9	45.0	153.9	1.877E-06	1.798E-06	1.798E-06
F	0.4	0.11	3218.	0.	0.	106.2	28.6	196.9	1.365E-04	2.299E-04	1.365E-04
F	0.5	0.06	3218.	0.	0.	106.2	28.6	196.9	1.133E-04	1.909E-04	1.133E-04
F	0.7	0.46	3218.	0.	0.	106.2	28.6	196.9	7.554E-05	1.273E-04	7.554E-05
F	1.0	0.46	3218.	0.	0.	106.2	28.6	196.9	5.665E-05	9.545E-05	5.665E-05
F	1.2	0.34	3218.	0.	0.	106.2	28.6	196.9	4.532E-05	7.636E-05	4.532E-05
F	1.5	0.57	3218.	0.	0.	106.2	28.6	196.9	3.777E-05	6.363E-05	3.777E-05
F	2.0	0.57	3218.	0.	0.	106.2	28.6	196.9	2.839E-05	4.783E-05	2.839E-05
F	3.0	0.69	3218.	0.	0.	106.2	28.6	148.9	2.500E-05	3.186E-05	2.500E-05
F	5.0	0.06	3218.	0.	0.	106.2	28.6	114.3	1.955E-05	1.912E-05	1.912E-05
F	6.0	0.17	3218.	0.	0.	106.2	28.6	106.4	1.749E-05	1.593E-05	1.593E-05
G	0.4	0.13	3218.	0.	0.	73.3	18.2	177.6	2.378E-04	4.692E-04	2.378E-04
G	0.7	0.40	3218.	0.	0.	73.3	18.2	177.6	1.317E-04	2.597E-04	1.317E-04
G	1.0	0.51	3218.	0.	0.	73.3	18.2	177.6	9.875E-05	1.948E-04	9.875E-05
G	1.2	0.34	3218.	0.	0.	73.3	18.2	177.6	7.900E-05	1.558E-04	7.900E-05
G	1.5	0.46	3218.	0.	0.	73.3	18.2	177.6	6.583E-05	1.299E-04	6.583E-05
G	2.0	0.23	3218.	0.	0.	73.3	18.2	177.6	4.948E-05	9.762E-05	4.948E-05
G	3.0	0.11	3218.	0.	0.	73.3	18.2	117.6	4.979E-05	6.503E-05	4.979E-05
G	4.0	0.23	3218.	0.	0.	73.3	18.2	93.2	4.711E-05	4.876E-05	4.711E-05

USNRC COMPUTER CODE-PAVAN, VERSION 2.0

RUN DATE: 03/07/07

PLANT NAME: Oyster Creek

METEOROLOGICAL INSTRUMENTATION

DATA PERIOD:

WIND SENSORS HEIGHT: Ground

TYPE OF RELEASE: Ground Release

DELTA-T HEIGHTS: 10.1-45.7 meters

SOURCE OF DATA:

COMMENTS: Oyster Creek, Ground Release, 1995-1999 met data

PROGRAM: PAVAN, 10/76, 8/79 REVISION, IMPLEMENTATION OF REGULATORY GUIDE 1.145

LOW POPULATION ZONE CALCULATIONS:

NW SECTOR BOUNDARY DISTANCE = 3218.0 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= 1913. D= 44.8

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.

2.378E-04	1.365E-04	1.317E-04	1.133E-04	9.875E-05	7.900E-05	7.554E-05	7.076E-05	6.583E-05	5.875E-05
0.125	0.233	0.633	0.690	1.204	1.547	2.004	2.148	2.605	2.777
0.00519	0.00968	0.02626	0.02863	0.04995	0.06416	0.08311	0.08909	0.10804	0.11514
5.665E-05	4.979E-05	4.948E-05	4.711E-05	4.532E-05	4.040E-05	3.917E-05	3.777E-05	3.355E-05	2.938E-05
3.234	3.348	3.576	3.805	4.147	4.262	4.719	5.291	5.348	6.833
0.13410	0.13883	0.14831	0.15778	0.17200	0.17676	0.19572	0.21940	0.22177	0.28336
2.839E-05	2.500E-05	2.350E-05	2.237E-05	1.958E-05	1.912E-05	1.677E-05	1.593E-05	1.472E-05	1.342E-05
7.404	8.090	9.118	9.403	10.888	10.946	11.745	11.917	15.801	17.400
0.30705	0.33548	0.37812	0.38996	0.45155	0.45392	0.48708	0.49419	0.65527	0.72159
1.195E-05	1.118E-05	1.008E-05	8.722E-06	8.406E-06	7.370E-06	6.218E-06	5.818E-06	5.525E-06	4.977E-06
21.627	23.569	26.483	28.482	32.709	33.337	43.105	43.162	44.761	50.588
0.89689	0.97743	1.09824	1.18115	1.35644	1.38250	1.78757	1.78994	1.85626	2.09788
4.421E-06	4.170E-06	3.879E-06	3.524E-06	2.916E-06	2.669E-06	2.642E-06	2.114E-06	2.002E-06	1.942E-06
50.759	52.815	52.987	54.472	54.986	55.043	56.642	56.871	56.928	57.728
2.10499	2.19027	2.19737	2.25896	2.28028	2.28265	2.34898	2.35845	2.36082	2.39399
1.798E-06	1.601E-06	1.456E-06	1.425E-06	1.334E-06	1.166E-06	1.003E-06	9.711E-07	8.598E-07	7.281E-07
57.785	57.899	60.070	60.072	60.244	60.929	61.443	61.500	61.558	61.615
2.39635	2.40109	2.49111	2.49122	2.49832	2.52675	2.54807	2.55044	2.55281	2.55518
6.682E-07	5.918E-07	5.010E-07	4.734E-07	4.011E-07	3.945E-07	3.341E-07	2.965E-07	2.505E-07	1.975E-07
64.014	64.071	66.527	66.584	67.669	67.898	68.241	69.897	70.011	75.267
2.65467	2.65704	2.75890	2.76126	2.80627	2.81575	2.82996	2.89866	2.90339	3.12133
1.481E-07	1.186E-07	9.877E-08	7.405E-08						
86.577	96.801	99.829	100.000						
3.59035	4.01437	4.13992	4.14703						

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)= 0.026  
 HANDCHECK GRAPH: SLOPE LT -1.0 FOR LOW PERCENTAGES. XSAVE ( 3)= 0.050  
 HANDCHECK GRAPH: SLOPE LT -1.0 FOR LOW PERCENTAGES. XSAVE ( 4)= 0.108  
 HANDCHECK GRAPH: SLOPE LT -1.0 FOR LOW PERCENTAGES. XSAVE ( 5)= 0.134  
 HANDCHECK GRAPH: SLOPE LT -1.0 FOR LOW PERCENTAGES. XSAVE ( 6)= 0.219  
 HANDCHECK GRAPH: SLOPE LT -1.0 FOR LOW PERCENTAGES. XSAVE ( 7)= 0.307  
 HANDCHECK GRAPH: SLOPE LT -1.0 FOR LOW PERCENTAGES. XSAVE ( 8)= 0.654  
 HANDCHECK GRAPH: SLOPE LT -1.0 FOR LOW PERCENTAGES. XSAVE ( 9)= 0.896  
 HANDCHECK GRAPH: SLOPE LT -1.0 FOR LOW PERCENTAGES. XSAVE (10)= 0.976  
 HANDCHECK GRAPH: SLOPE LT -1.0 FOR LOW PERCENTAGES. XSAVE (11)= 1.355  
 HANDCHECK GRAPH: SLOPE LT -1.0 FOR LOW PERCENTAGES. XSAVE (12)= 1.786  
 HANDCHECK GRAPH: SLOPE LT -1.0 FOR LOW PERCENTAGES. XSAVE (13)= 2.096  
 HANDCHECK GRAPH: SLOPE LT -1.0 FOR LOW PERCENTAGES. XSAVE (14)= 2.188

K	I	XQSAVE(K, I)	XQINT(K, I)	XQSLOP(K, I)
7	1	-8.34389	-13.89145	-1.42922
7	2	-8.93526	-14.58094	-1.62804
7	3	-9.22294	-15.19153	-1.81358
7	4	-9.62841	-16.69909	-2.30504
7	5	-9.77859	-17.72681	-2.64735
7	6	-10.18406	-17.66971	-2.62730
7	7	-10.46950	-17.41276	-2.53354
7	8	-11.12624	-15.66350	-1.82857
7	9	-11.33466	-16.25374	-2.07790
7	10	-11.40115	-16.72405	-2.27928
7	11	-11.68659	-17.74841	-2.74278
7	12	-11.98807	-19.09099	-3.38204
7	13	-12.21064	-32.22128	-9.83625
7	14	-12.38762	NUMXQ(K)= 14	
		1.075E-04	0.041	1.000
		5.970E-05	0.124	3.000
		3.960E-05	0.207	5.000
		2.202E-05	0.415	10.000
		1.543E-05	0.622	15.000
		1.260E-05	0.829	20.000
		1.063E-05	1.037	25.000
		9.074E-06	1.244	30.000
		7.815E-06	1.451	35.000
		6.755E-06	1.659	40.000
		5.860E-06	1.866	45.000
		5.060E-06	2.074	50.000
		1.872E-05	0.5	12.06

ANNUAL AVERAGE = 1.71E-07

K= 7 FIVEXQ(K)= 1.872E-05 FIVEPR(K)=12.057

USNRC COMPUTER CODE-PAVAN, VERSION 2.0

RUN DATE: 03/07/07

PLANT NAME: Oyster Creek

METEOROLOGICAL INSTRUMENTATION

DATA PERIOD:

WIND SENSORS HEIGHT: Ground

TYPE OF RELEASE: Ground Release

DELTA-T HEIGHTS: 10.1-45.7 meters

SOURCE OF DATA:

COMMENTS: Oyster Creek, Ground Release, 1995-1999 met data

PROGRAM: PAVAN, 10/76, 8/79 REVISION, IMPLEMENTATION OF REGULATORY GUIDE 1.145

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

CLASS	METER/SEC AT 10.0 METERS	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	USED
									CA= 957.SQ.METERS		
A	0.4	0.00	3218.	0.	0.	538.2	1000.0	538.2	1.426E-06	1.425E-06	1.425E-06
A	1.2	0.11	3218.	0.	0.	538.2	1000.0	538.2	4.737E-07	4.734E-07	4.734E-07
A	1.5	0.23	3218.	0.	0.	538.2	1000.0	538.2	3.947E-07	3.945E-07	3.945E-07
A	2.0	0.80	3218.	0.	0.	538.2	1000.0	538.2	2.967E-07	2.965E-07	2.965E-07
A	3.0	1.78	3218.	0.	0.	538.2	1000.0	538.2	1.977E-07	1.975E-07	1.975E-07
A	4.0	3.96	3218.	0.	0.	538.2	1000.0	538.2	1.482E-07	1.481E-07	1.481E-07
A	5.0	7.69	3218.	0.	0.	538.2	1000.0	538.2	1.186E-07	1.186E-07	1.186E-07
A	6.0	4.54	3218.	0.	0.	538.2	1000.0	538.2	9.883E-08	9.877E-08	9.877E-08
A	8.0	1.49	3218.	0.	0.	538.2	1000.0	538.2	7.409E-08	7.405E-08	7.405E-08
B	1.5	0.29	3218.	0.	0.	404.8	392.6	404.8	1.337E-06	1.334E-06	1.334E-06
B	2.0	0.57	3218.	0.	0.	404.8	392.6	404.8	1.005E-06	1.003E-06	1.003E-06
B	3.0	1.66	3218.	0.	0.	404.8	392.6	404.8	6.695E-07	6.682E-07	6.682E-07
B	4.0	3.90	3218.	0.	0.	404.8	392.6	404.8	5.019E-07	5.010E-07	5.010E-07
B	5.0	1.95	3218.	0.	0.	404.8	392.6	404.8	4.018E-07	4.011E-07	4.011E-07
B	6.0	0.46	3218.	0.	0.	404.8	392.6	404.8	3.348E-07	3.341E-07	3.341E-07
B	8.0	0.29	3218.	0.	0.	404.8	392.6	404.8	2.510E-07	2.505E-07	2.505E-07
C	0.7	0.06	3218.	0.	0.	307.4	177.2	307.4	7.801E-06	7.758E-06	7.758E-06
C	1.5	0.17	3218.	0.	0.	307.4	177.2	307.4	3.900E-06	3.879E-06	3.879E-06
C	2.0	0.29	3218.	0.	0.	307.4	177.2	307.4	2.932E-06	2.916E-06	2.916E-06
C	3.0	0.69	3218.	0.	0.	307.4	177.2	307.4	1.953E-06	1.942E-06	1.942E-06
C	4.0	1.55	3218.	0.	0.	307.4	177.2	307.4	1.464E-06	1.456E-06	1.456E-06
C	5.0	0.86	3218.	0.	0.	307.4	177.2	307.4	1.172E-06	1.166E-06	1.166E-06
C	6.0	0.06	3218.	0.	0.	307.4	177.2	307.4	9.766E-07	9.711E-07	9.711E-07
C	8.0	0.17	3218.	0.	0.	307.4	177.2	307.4	7.322E-07	7.281E-07	7.281E-07
D	0.4	0.07	3218.	0.	0.	216.4	68.3	278.0	4.040E-05	5.085E-05	4.040E-05
D	0.7	0.17	3218.	0.	0.	216.4	68.3	278.0	2.237E-05	2.815E-05	2.237E-05
D	1.0	0.69	3218.	0.	0.	216.4	68.3	278.0	1.677E-05	2.111E-05	1.677E-05
D	1.2	0.86	3218.	0.	0.	216.4	68.3	278.0	1.342E-05	1.689E-05	1.342E-05
D	1.5	1.49	3218.	0.	0.	216.4	68.3	278.0	1.118E-05	1.407E-05	1.118E-05
D	2.0	2.99	3218.	0.	0.	216.4	68.3	278.0	8.406E-06	1.058E-05	8.406E-06
D	3.0	9.82	3218.	0.	0.	216.4	68.3	250.4	6.218E-06	7.048E-06	6.218E-06
D	4.0	7.12	3218.	0.	0.	216.4	68.3	234.5	4.977E-06	5.284E-06	4.977E-06
D	5.0	2.87	3218.	0.	0.	216.4	68.3	224.1	4.170E-06	4.230E-06	4.170E-06
D	6.0	1.32	3218.	0.	0.	216.4	68.3	216.5	3.595E-06	3.524E-06	3.524E-06
D	8.0	1.66	3218.	0.	0.	216.4	68.3	216.4	2.696E-06	2.642E-06	2.642E-06
D	10.0	0.57	3218.	0.	0.	216.4	68.3	216.4	2.158E-06	2.114E-06	2.114E-06
D	24.5	0.06	3218.	0.	0.	216.4	68.3	216.4	8.775E-07	8.598E-07	8.598E-07
E	0.4	0.20	3218.	0.	0.	153.9	45.0	241.5	7.076E-05	1.063E-04	7.076E-05
E	0.5	0.17	3218.	0.	0.	153.9	45.0	241.5	5.875E-05	8.830E-05	5.875E-05

E	0.7	0.52	3218.	0.	0.	153.9	45.0	241.5	3.917E-05	5.887E-05	3.917E-05
E	1.0	2.12	3218.	0.	0.	153.9	45.0	241.5	2.938E-05	4.415E-05	2.938E-05
E	1.2	1.55	3218.	0.	0.	153.9	45.0	241.5	2.350E-05	3.532E-05	2.350E-05
E	1.5	1.78	3218.	0.	0.	153.9	45.0	241.5	1.958E-05	2.943E-05	1.958E-05
E	2.0	4.31	3218.	0.	0.	153.9	45.0	241.5	1.472E-05	2.213E-05	1.472E-05
E	3.0	4.76	3218.	0.	0.	153.9	45.0	198.1	1.195E-05	1.474E-05	1.195E-05
E	4.0	2.76	3218.	0.	0.	153.9	45.0	176.1	1.008E-05	1.105E-05	1.008E-05
E	5.0	2.58	3218.	0.	0.	153.9	45.0	162.9	8.722E-06	8.846E-06	8.722E-06
E	6.0	2.53	3218.	0.	0.	153.9	45.0	154.1	7.682E-06	7.370E-06	7.370E-06
E	8.0	2.30	3218.	0.	0.	153.9	45.0	153.9	5.768E-06	5.525E-06	5.525E-06
E	10.0	1.03	3218.	0.	0.	153.9	45.0	153.9	4.615E-06	4.421E-06	4.421E-06
E	24.5	0.46	3218.	0.	0.	153.9	45.0	153.9	1.877E-06	1.798E-06	1.798E-06
F	0.4	0.21	3218.	0.	0.	106.2	28.6	196.9	1.365E-04	2.299E-04	1.365E-04
F	0.5	0.23	3218.	0.	0.	106.2	28.6	196.9	1.133E-04	1.909E-04	1.133E-04
F	0.7	0.52	3218.	0.	0.	106.2	28.6	196.9	7.554E-05	1.273E-04	7.554E-05
F	1.0	0.86	3218.	0.	0.	106.2	28.6	196.9	5.665E-05	9.545E-05	5.665E-05
F	1.2	0.92	3218.	0.	0.	106.2	28.6	196.9	4.532E-05	7.636E-05	4.532E-05
F	1.5	1.44	3218.	0.	0.	106.2	28.6	196.9	3.777E-05	6.363E-05	3.777E-05
F	2.0	1.15	3218.	0.	0.	106.2	28.6	196.9	2.839E-05	4.783E-05	2.839E-05
F	3.0	0.63	3218.	0.	0.	106.2	28.6	148.9	2.500E-05	3.186E-05	2.500E-05
F	4.0	0.23	3218.	0.	0.	106.2	28.6	126.7	2.203E-05	2.389E-05	2.203E-05
G	0.4	0.14	3218.	0.	0.	73.3	18.2	177.6	2.378E-04	4.692E-04	2.378E-04
G	0.7	0.57	3218.	0.	0.	73.3	18.2	177.6	1.317E-04	2.597E-04	1.317E-04
G	1.0	0.57	3218.	0.	0.	73.3	18.2	177.6	9.875E-05	1.948E-04	9.875E-05
G	1.2	0.29	3218.	0.	0.	73.3	18.2	177.6	7.900E-05	1.558E-04	7.900E-05
G	1.5	0.80	3218.	0.	0.	73.3	18.2	177.6	6.583E-05	1.299E-04	6.583E-05
G	2.0	0.57	3218.	0.	0.	73.3	18.2	177.6	4.948E-05	9.762E-05	4.948E-05
G	3.0	0.23	3218.	0.	0.	73.3	18.2	117.6	4.979E-05	6.503E-05	4.979E-05
G	4.0	0.06	3218.	0.	0.	73.3	18.2	93.2	4.711E-05	4.876E-05	4.711E-05
G	5.0	0.11	3218.	0.	0.	73.3	18.2	80.8	4.350E-05	3.903E-05	3.903E-05
G	6.0	0.11	3218.	0.	0.	73.3	18.2	73.5	3.983E-05	3.252E-05	3.252E-05

USNRC COMPUTER CODE-PAVAN, VERSION 2.0

RUN DATE: 03/07/07

PLANT NAME: Oyster Creek

METEOROLOGICAL INSTRUMENTATION

DATA PERIOD:

WIND SENSORS HEIGHT: Ground

TYPE OF RELEASE: Ground Release

DELTA-T HEIGHTS: 10.1-45.7 meters

SOURCE OF DATA:

COMMENTS: Oyster Creek, Ground Release, 1995-1999 met data

PROGRAM: PAVAN, 10/76, 8/79 REVISION, IMPLEMENTATION OF REGULATORY GUIDE 1.145

LOW POPULATION ZONE CALCULATIONS:

NNW SECTOR BOUNDARY DISTANCE = 3218.0 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= 1913. D= 44.8

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.

2.378E-04	1.365E-04	1.317E-04	1.133E-04	9.875E-05	7.900E-05	7.554E-05	7.076E-05	6.583E-05	5.875E-05
0.143	0.351	0.925	1.155	1.729	2.016	2.532	2.733	3.536	3.709
0.00590	0.01448	0.03817	0.04764	0.07133	0.08317	0.10449	0.11275	0.14592	0.15302
5.665E-05	4.979E-05	4.948E-05	4.711E-05	4.532E-05	4.040E-05	3.917E-05	3.903E-05	3.777E-05	3.252E-05
4.570	4.799	5.373	5.431	6.349	6.422	6.938	7.053	8.488	8.603
0.18856	0.19803	0.22172	0.22409	0.26199	0.26497	0.28629	0.29103	0.35025	0.35499
2.938E-05	2.839E-05	2.500E-05	2.350E-05	2.237E-05	2.203E-05	1.958E-05	1.677E-05	1.472E-05	1.342E-05
10.727	11.875	12.507	14.057	14.229	14.459	16.238	16.927	21.233	22.094
0.44263	0.49001	0.51607	0.58002	0.58713	0.59661	0.67004	0.69847	0.87613	0.91166
1.195E-05	1.118E-05	1.008E-05	8.722E-06	8.406E-06	7.758E-06	7.370E-06	6.218E-06	5.525E-06	4.977E-06
26.859	28.352	31.107	33.691	36.676	36.733	39.259	49.076	51.372	58.491
1.10827	1.16986	1.28357	1.39016	1.51334	1.51571	1.61994	2.02501	2.11976	2.41350
4.421E-06	4.170E-06	3.879E-06	3.524E-06	2.916E-06	2.642E-06	2.114E-06	1.942E-06	1.798E-06	1.456E-06
59.524	62.395	62.567	63.887	64.174	65.839	66.413	67.102	67.562	69.112
2.45614	2.57458	2.58168	2.63617	2.64801	2.71671	2.74039	2.76882	2.78777	2.85173
1.425E-06	1.334E-06	1.166E-06	1.003E-06	9.711E-07	8.598E-07	7.281E-07	6.682E-07	5.010E-07	4.734E-07
69.114	69.401	70.262	70.836	70.894	70.951	71.124	72.788	76.692	76.807
2.85184	2.86368	2.89922	2.92290	2.92527	2.92764	2.93475	3.00344	3.16452	3.16926
4.011E-07	3.945E-07	3.341E-07	2.965E-07	2.505E-07	1.975E-07	1.481E-07	1.186E-07	9.877E-08	7.405E-08
78.759	78.988	79.448	80.251	80.539	82.318	86.279	93.972	98.507	100.000
3.24980	3.25928	3.27823	3.31139	3.32324	3.39667	3.56012	3.87754	4.06468	4.12627

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)= 0.038  
 HANDCHECK GRAPH: SLOPE LT -1.0 FOR LOW PERCENTAGES. XSAVE ( 3)= 0.071  
 HANDCHECK GRAPH: SLOPE LT -1.0 FOR LOW PERCENTAGES. XSAVE ( 4)= 0.188  
 HANDCHECK GRAPH: SLOPE LT -1.0 FOR LOW PERCENTAGES. XSAVE ( 5)= 0.350  
 HANDCHECK GRAPH: SLOPE LT -1.0 FOR LOW PERCENTAGES. XSAVE ( 6)= 0.489  
 HANDCHECK GRAPH: SLOPE LT -1.0 FOR LOW PERCENTAGES. XSAVE ( 7)= 1.107  
 HANDCHECK GRAPH: SLOPE LT -1.0 FOR LOW PERCENTAGES. XSAVE ( 8)= 2.023  
 HANDCHECK GRAPH: SLOPE LT -1.0 FOR LOW PERCENTAGES. XSAVE ( 9)= 2.411

K	I	XQSAVE(K, I)	XQINT(K, I)	XQSLOP(K, I)
8	1	-8.34389	-13.04466	-1.22087
8	2	-8.93526	-14.42172	-1.62998
8	3	-9.22294	-15.28311	-1.90005
8	4	-9.77859	-15.65054	-2.02688
8	5	-10.18406	-16.94984	-2.50864
8	6	-10.46950	-18.03907	-2.93030
8	7	-11.33466	-17.59212	-2.73495
8	8	-11.98807	-18.18157	-3.02262
8	9	-12.21064		
NUMXQ(K)= 9				
		1.271E-04	0.041	1.000
		7.246E-05	0.124	3.000
		5.349E-05	0.206	5.000
		3.290E-05	0.413	10.000
		2.235E-05	0.619	15.000
		1.650E-05	0.825	20.000
		1.294E-05	1.032	25.000
		1.064E-05	1.238	30.000
		9.031E-06	1.444	35.000
		7.810E-06	1.651	40.000
		6.855E-06	1.857	45.000
		6.074E-06	2.063	50.000
		5.385E-06	2.269	55.000
		2.782E-05	0.5	12.12

ANNUAL AVERAGE = 2.10E-07

K= 8 FIVEXQ(K)= 2.782E-05 FIVEPR(K)=12.117

USNRC COMPUTER CODE-PAVAN, VERSION 2.0

RUN DATE: 03/07/07

PLANT NAME: Oyster Creek

METEOROLOGICAL INSTRUMENTATION

DATA PERIOD:

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TYPE OF RELEASE: Ground Release

DELTA-T HEIGHTS: 10.1-45.7 meters

SOURCE OF DATA:

COMMENTS: Oyster Creek, Ground Release, 1995-1999 met data

PROGRAM: PAVAN, 10/76, 8/79 REVISION, IMPLEMENTATION OF REGULATORY GUIDE 1.145

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

CLASS	METER/SEC	PERCENT	METERS	METERS	METERS	SIGMA-Y	SIGMA-Z	MEANDER-SY	** CHI/Q VALUES (SEC/CUBIC METER)		
									MEANDER	BLDG WAKE	USED
AT 10.0 METERS									CA= 957.SQ.METERS		
A	0.4	0.00	3218.	0.	0.	538.2	1000.0	538.2	1.426E-06	1.425E-06	1.425E-06
A	1.0	0.03	3218.	0.	0.	538.2	1000.0	538.2	5.921E-07	5.918E-07	5.918E-07
A	1.2	0.03	3218.	0.	0.	538.2	1000.0	538.2	4.737E-07	4.734E-07	4.734E-07
A	1.5	0.13	3218.	0.	0.	538.2	1000.0	538.2	3.947E-07	3.945E-07	3.945E-07
A	2.0	0.49	3218.	0.	0.	538.2	1000.0	538.2	2.967E-07	2.965E-07	2.965E-07
A	3.0	2.51	3218.	0.	0.	538.2	1000.0	538.2	1.977E-07	1.975E-07	1.975E-07
A	4.0	1.78	3218.	0.	0.	538.2	1000.0	538.2	1.482E-07	1.481E-07	1.481E-07
A	5.0	3.60	3218.	0.	0.	538.2	1000.0	538.2	1.186E-07	1.186E-07	1.186E-07
A	6.0	5.90	3218.	0.	0.	538.2	1000.0	538.2	9.883E-08	9.877E-08	9.877E-08
A	8.0	4.68	3218.	0.	0.	538.2	1000.0	538.2	7.409E-08	7.405E-08	7.405E-08
A	10.0	0.63	3218.	0.	0.	538.2	1000.0	538.2	5.929E-08	5.926E-08	5.926E-08
B	1.2	0.03	3218.	0.	0.	404.8	392.6	404.8	1.604E-06	1.601E-06	1.601E-06
B	1.5	0.07	3218.	0.	0.	404.8	392.6	404.8	1.337E-06	1.334E-06	1.334E-06
B	2.0	0.23	3218.	0.	0.	404.8	392.6	404.8	1.005E-06	1.003E-06	1.003E-06
B	3.0	1.02	3218.	0.	0.	404.8	392.6	404.8	6.695E-07	6.682E-07	6.682E-07
B	4.0	1.09	3218.	0.	0.	404.8	392.6	404.8	5.019E-07	5.010E-07	5.010E-07
B	5.0	1.52	3218.	0.	0.	404.8	392.6	404.8	4.018E-07	4.011E-07	4.011E-07
B	6.0	1.06	3218.	0.	0.	404.8	392.6	404.8	3.348E-07	3.341E-07	3.341E-07
B	8.0	1.06	3218.	0.	0.	404.8	392.6	404.8	2.510E-07	2.505E-07	2.505E-07
B	10.0	0.07	3218.	0.	0.	404.8	392.6	404.8	2.008E-07	2.004E-07	2.004E-07
B	24.5	0.03	3218.	0.	0.	404.8	392.6	404.8	8.168E-08	8.152E-08	8.152E-08
C	1.2	0.03	3218.	0.	0.	307.4	177.2	307.4	4.681E-06	4.655E-06	4.655E-06
C	1.5	0.03	3218.	0.	0.	307.4	177.2	307.4	3.900E-06	3.879E-06	3.879E-06
C	2.0	0.13	3218.	0.	0.	307.4	177.2	307.4	2.932E-06	2.916E-06	2.916E-06
C	3.0	0.63	3218.	0.	0.	307.4	177.2	307.4	1.953E-06	1.942E-06	1.942E-06
C	4.0	0.66	3218.	0.	0.	307.4	177.2	307.4	1.464E-06	1.456E-06	1.456E-06
C	5.0	1.02	3218.	0.	0.	307.4	177.2	307.4	1.172E-06	1.166E-06	1.166E-06
C	6.0	0.73	3218.	0.	0.	307.4	177.2	307.4	9.766E-07	9.711E-07	9.711E-07
C	8.0	0.33	3218.	0.	0.	307.4	177.2	307.4	7.322E-07	7.281E-07	7.281E-07
C	24.5	0.03	3218.	0.	0.	307.4	177.2	307.4	2.383E-07	2.370E-07	2.370E-07
D	0.4	0.05	3218.	0.	0.	216.4	68.3	278.0	4.040E-05	5.085E-05	4.040E-05
D	0.5	0.03	3218.	0.	0.	216.4	68.3	278.0	3.355E-05	4.222E-05	3.355E-05
D	0.7	0.23	3218.	0.	0.	216.4	68.3	278.0	2.237E-05	2.815E-05	2.237E-05
D	1.0	0.40	3218.	0.	0.	216.4	68.3	278.0	1.677E-05	2.111E-05	1.677E-05
D	1.2	0.63	3218.	0.	0.	216.4	68.3	278.0	1.342E-05	1.689E-05	1.342E-05
D	1.5	0.76	3218.	0.	0.	216.4	68.3	278.0	1.118E-05	1.407E-05	1.118E-05
D	2.0	2.24	3218.	0.	0.	216.4	68.3	278.0	8.406E-06	1.058E-05	8.406E-06
D	3.0	6.70	3218.	0.	0.	216.4	68.3	250.4	6.218E-06	7.048E-06	6.218E-06
D	4.0	6.50	3218.	0.	0.	216.4	68.3	234.5	4.977E-06	5.284E-06	4.977E-06
D	5.0	4.82	3218.	0.	0.	216.4	68.3	224.1	4.170E-06	4.230E-06	4.170E-06

D	6.0	2.71	3218.	0.	0.	216.4	68.3	216.5	3.595E-06	3.524E-06	3.524E-06
D	8.0	2.64	3218.	0.	0.	216.4	68.3	216.4	2.696E-06	2.642E-06	2.642E-06
D	10.0	1.06	3218.	0.	0.	216.4	68.3	216.4	2.158E-06	2.114E-06	2.114E-06
D	24.5	0.16	3218.	0.	0.	216.4	68.3	216.4	8.775E-07	8.598E-07	8.598E-07
E	0.4	0.14	3218.	0.	0.	153.9	45.0	241.5	7.076E-05	1.063E-04	7.076E-05
E	0.5	0.13	3218.	0.	0.	153.9	45.0	241.5	5.875E-05	8.830E-05	5.875E-05
E	0.7	0.49	3218.	0.	0.	153.9	45.0	241.5	3.917E-05	5.887E-05	3.917E-05
E	1.0	1.48	3218.	0.	0.	153.9	45.0	241.5	2.938E-05	4.415E-05	2.938E-05
E	1.2	0.99	3218.	0.	0.	153.9	45.0	241.5	2.350E-05	3.532E-05	2.350E-05
E	1.5	1.81	3218.	0.	0.	153.9	45.0	241.5	1.958E-05	2.943E-05	1.958E-05
E	2.0	3.89	3218.	0.	0.	153.9	45.0	241.5	1.472E-05	2.213E-05	1.472E-05
E	3.0	7.72	3218.	0.	0.	153.9	45.0	198.1	1.195E-05	1.474E-05	1.195E-05
E	4.0	5.01	3218.	0.	0.	153.9	45.0	176.1	1.008E-05	1.105E-05	1.008E-05
E	5.0	3.73	3218.	0.	0.	153.9	45.0	162.9	8.722E-06	8.846E-06	8.722E-06
E	6.0	1.65	3218.	0.	0.	153.9	45.0	154.1	7.682E-06	7.370E-06	7.370E-06
E	8.0	1.68	3218.	0.	0.	153.9	45.0	153.9	5.768E-06	5.525E-06	5.525E-06
E	10.0	0.76	3218.	0.	0.	153.9	45.0	153.9	4.615E-06	4.421E-06	4.421E-06
E	24.5	0.30	3218.	0.	0.	153.9	45.0	153.9	1.877E-06	1.798E-06	1.798E-06
F	0.4	0.14	3218.	0.	0.	106.2	28.6	196.9	1.365E-04	2.299E-04	1.365E-04
F	0.5	0.07	3218.	0.	0.	106.2	28.6	196.9	1.133E-04	1.909E-04	1.133E-04
F	0.7	0.36	3218.	0.	0.	106.2	28.6	196.9	7.554E-05	1.273E-04	7.554E-05
F	1.0	0.56	3218.	0.	0.	106.2	28.6	196.9	5.665E-05	9.545E-05	5.665E-05
F	1.2	0.66	3218.	0.	0.	106.2	28.6	196.9	4.532E-05	7.636E-05	4.532E-05
F	1.5	1.22	3218.	0.	0.	106.2	28.6	196.9	3.777E-05	6.363E-05	3.777E-05
F	2.0	1.65	3218.	0.	0.	106.2	28.6	196.9	2.839E-05	4.783E-05	2.839E-05
F	3.0	1.22	3218.	0.	0.	106.2	28.6	148.9	2.500E-05	3.186E-05	2.500E-05
F	4.0	0.30	3218.	0.	0.	106.2	28.6	126.7	2.203E-05	2.389E-05	2.203E-05
F	5.0	0.16	3218.	0.	0.	106.2	28.6	114.3	1.955E-05	1.912E-05	1.912E-05
F	6.0	0.13	3218.	0.	0.	106.2	28.6	106.4	1.749E-05	1.593E-05	1.593E-05
F	8.0	0.03	3218.	0.	0.	106.2	28.6	106.2	1.314E-05	1.194E-05	1.194E-05
F	10.0	0.03	3218.	0.	0.	106.2	28.6	106.2	1.051E-05	9.558E-06	9.558E-06
G	0.4	0.24	3218.	0.	0.	73.3	18.2	177.6	2.378E-04	4.692E-04	2.378E-04
G	0.5	0.13	3218.	0.	0.	73.3	18.2	177.6	1.975E-04	3.896E-04	1.975E-04
G	0.7	0.79	3218.	0.	0.	73.3	18.2	177.6	1.317E-04	2.597E-04	1.317E-04
G	1.0	1.06	3218.	0.	0.	73.3	18.2	177.6	9.875E-05	1.948E-04	9.875E-05
G	1.2	0.43	3218.	0.	0.	73.3	18.2	177.6	7.900E-05	1.558E-04	7.900E-05
G	1.5	0.92	3218.	0.	0.	73.3	18.2	177.6	6.583E-05	1.299E-04	6.583E-05
G	2.0	0.79	3218.	0.	0.	73.3	18.2	177.6	4.948E-05	9.762E-05	4.948E-05
G	3.0	0.49	3218.	0.	0.	73.3	18.2	117.6	4.979E-05	6.503E-05	4.979E-05
G	4.0	0.10	3218.	0.	0.	73.3	18.2	93.2	4.711E-05	4.876E-05	4.711E-05
G	5.0	0.10	3218.	0.	0.	73.3	18.2	80.8	4.350E-05	3.903E-05	3.903E-05
G	6.0	0.07	3218.	0.	0.	73.3	18.2	73.5	3.983E-05	3.252E-05	3.252E-05
G	8.0	0.07	3218.	0.	0.	73.3	18.2	73.3	2.994E-05	2.438E-05	2.438E-05

USNRC COMPUTER CODE-PAVAN, VERSION 2.0

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PLANT NAME: Oyster Creek

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0.240	0.372	0.508	1.299	1.365	2.421	2.850	3.213	3.355	4.279
0.01723	0.02670	0.03645	0.09330	0.09804	0.17384	0.20464	0.23069	0.24091	0.30724
5.875E-05	5.665E-05	4.979E-05	4.948E-05	4.711E-05	4.532E-05	4.040E-05	3.917E-05	3.903E-05	3.777E-05
4.411	4.971	5.466	6.258	6.357	7.017	7.071	7.565	7.664	8.885
0.31671	0.35698	0.39252	0.44937	0.45647	0.50385	0.50773	0.54326	0.55036	0.63801
3.355E-05	3.252E-05	2.938E-05	2.839E-05	2.500E-05	2.438E-05	2.350E-05	2.237E-05	2.203E-05	1.958E-05
8.918	8.984	10.468	12.118	13.338	13.404	14.394	14.625	14.922	16.736
0.64038	0.64512	0.75171	0.87016	0.95780	0.96254	1.03360	1.05019	1.07151	1.20179
1.912E-05	1.677E-05	1.593E-05	1.472E-05	1.342E-05	1.195E-05	1.194E-05	1.118E-05	1.008E-05	9.558E-06
16.901	17.297	17.429	21.321	21.948	29.668	29.701	30.459	35.473	35.506
1.21364	1.24206	1.25154	1.53106	1.57607	2.13037	2.13274	2.18722	2.54728	2.54965
8.722E-06	8.406E-06	7.370E-06	6.218E-06	5.525E-06	4.977E-06	4.655E-06	4.421E-06	4.170E-06	3.879E-06
39.234	41.477	43.127	49.823	51.506	58.004	58.037	58.796	63.612	63.645
2.81733	2.97841	3.09685	3.57772	3.69853	4.16519	4.16756	4.22204	4.56789	4.57026
3.524E-06	2.916E-06	2.642E-06	2.114E-06	1.942E-06	1.798E-06	1.601E-06	1.456E-06	1.425E-06	1.334E-06
66.350	66.482	69.121	70.177	70.804	71.101	71.134	71.794	71.795	71.861
4.76451	4.77398	4.96349	5.03929	5.08430	5.10562	5.10799	5.15536	5.15547	5.16021
1.166E-06	1.003E-06	9.711E-07	8.598E-07	7.281E-07	6.682E-07	5.918E-07	5.010E-07	4.734E-07	4.011E-07
72.884	73.115	73.840	74.005	74.335	75.358	75.391	76.479	76.512	78.030
5.23364	5.25023	5.30234	5.31418	5.33787	5.41131	5.41368	5.49185	5.49422	5.60318
3.945E-07	3.341E-07	2.965E-07	2.505E-07	2.370E-07	2.004E-07	1.975E-07	1.481E-07	1.186E-07	9.877E-08
78.162	79.217	79.712	80.768	80.801	80.867	83.374	85.155	88.751	94.656
5.61266	5.68846	5.72399	5.79979	5.80216	5.80690	5.98693	6.11485	6.37305	6.79707
8.152E-08	7.405E-08	5.926E-08							
94.689	99.373	100.000							

6.79944      7.13581      7.18082

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)= 0.093  
 HANDCHECK GRAPH: SLOPE LT -1.0 FOR LOW PERCENTAGES. XSAVE ( 3)= 0.174  
 HANDCHECK GRAPH: SLOPE LT -1.0 FOR LOW PERCENTAGES. XSAVE ( 4)= 0.307  
 HANDCHECK GRAPH: SLOPE LT -1.0 FOR LOW PERCENTAGES. XSAVE ( 5)= 0.503  
 HANDCHECK GRAPH: SLOPE LT -1.0 FOR LOW PERCENTAGES. XSAVE ( 6)= 0.637  
 HANDCHECK GRAPH: SLOPE LT -1.0 FOR LOW PERCENTAGES. XSAVE ( 7)= 0.869  
 HANDCHECK GRAPH: SLOPE LT -1.0 FOR LOW PERCENTAGES. XSAVE ( 8)= 1.032  
 HANDCHECK GRAPH: SLOPE LT -1.0 FOR LOW PERCENTAGES. XSAVE ( 9)= 2.128  
 HANDCHECK GRAPH: SLOPE LT -1.0 FOR LOW PERCENTAGES. XSAVE (10)= 2.130  
 HANDCHECK GRAPH: SLOPE LT -1.0 FOR LOW PERCENTAGES. XSAVE (11)= 2.545  
 HANDCHECK GRAPH: SLOPE LT -1.0 FOR LOW PERCENTAGES. XSAVE (12)= 2.976  
 HANDCHECK GRAPH: SLOPE LT -1.0 FOR LOW PERCENTAGES. XSAVE (13)= 4.162

K	I	XQSAVE(K, I)	XQINT(K, I)	XQSLOP(K, I)
9	1	-8.34389	-12.86296	-1.26250
9	2	-8.93526	-13.68025	-1.52521
9	3	-9.22294	-15.73004	-2.22661
9	4	-9.62841	-15.76368	-2.23888
9	5	-10.00173	-15.67067	-2.20274
9	6	-10.18406	-16.51527	-2.54183
9	7	-10.46950	-17.47564	-2.94560
9	8	-10.65847	-16.12299	-2.36114
9	9	-11.33466	-13.77992	-1.20576
9	10	-11.33522	-15.91207	-2.25737
9	11	-11.50485	-16.72513	-2.67382
9	12	-11.68659	-18.17560	-3.44355
9	13	-12.21064	NUMXQ(K)= 13	
		1.450E-04	0.072	1.000
		8.498E-05	0.215	3.000
		5.865E-05	0.359	5.000
		3.392E-05	0.718	10.000
		2.265E-05	1.077	15.000
		1.743E-05	1.436	20.000
		1.412E-05	1.795	25.000
		1.183E-05	2.154	30.000
		1.021E-05	2.513	35.000
		8.771E-06	2.872	40.000
		7.422E-06	3.231	45.000
		6.302E-06	3.590	50.000
		5.420E-06	3.949	55.000
		4.559E-05	0.5	6.96

ANNUAL AVERAGE = 3.72E-07

K= 9 FIVEXQ(K)= 4.559E-05 FIVEPR(K)= 6.963

USNRC COMPUTER CODE-PAVAN, VERSION 2.0

RUN DATE: 03/07/07

PLANT NAME: Oyster Creek

METEOROLOGICAL INSTRUMENTATION

DATA PERIOD:

WIND SENSORS HEIGHT: Ground

TYPE OF RELEASE: Ground Release

DELTA-T HEIGHTS: 10.1-45.7 meters

SOURCE OF DATA:

COMMENTS: Oyster Creek, Ground Release, 1995-1999 met data

PROGRAM: PAVAN, 10/76, 8/79 REVISION, IMPLEMENTATION OF REGULATORY GUIDE 1.145

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

CLASS	METER/SEC AT 10.0 METERS	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	USED
									CA= 957.SQ.METERS		
A	0.4	0.00	3218.	0.	0.	538.2	1000.0	538.2	1.426E-06	1.425E-06	1.425E-06
A	0.7	0.03	3218.	0.	0.	538.2	1000.0	538.2	7.895E-07	7.890E-07	7.890E-07
A	1.2	0.07	3218.	0.	0.	538.2	1000.0	538.2	4.737E-07	4.734E-07	4.734E-07
A	1.5	0.14	3218.	0.	0.	538.2	1000.0	538.2	3.947E-07	3.945E-07	3.945E-07
A	2.0	0.37	3218.	0.	0.	538.2	1000.0	538.2	2.967E-07	2.965E-07	2.965E-07
A	3.0	1.43	3218.	0.	0.	538.2	1000.0	538.2	1.977E-07	1.975E-07	1.975E-07
A	4.0	1.09	3218.	0.	0.	538.2	1000.0	538.2	1.482E-07	1.481E-07	1.481E-07
A	5.0	1.94	3218.	0.	0.	538.2	1000.0	538.2	1.186E-07	1.186E-07	1.186E-07
A	6.0	1.73	3218.	0.	0.	538.2	1000.0	538.2	9.883E-08	9.877E-08	9.877E-08
A	8.0	2.35	3218.	0.	0.	538.2	1000.0	538.2	7.409E-08	7.405E-08	7.405E-08
A	10.0	0.48	3218.	0.	0.	538.2	1000.0	538.2	5.929E-08	5.926E-08	5.926E-08
A	24.5	0.03	3218.	0.	0.	538.2	1000.0	538.2	2.411E-08	2.410E-08	2.410E-08
B	1.0	0.03	3218.	0.	0.	404.8	392.6	404.8	2.006E-06	2.002E-06	2.002E-06
B	1.2	0.07	3218.	0.	0.	404.8	392.6	404.8	1.604E-06	1.601E-06	1.601E-06
B	1.5	0.03	3218.	0.	0.	404.8	392.6	404.8	1.337E-06	1.334E-06	1.334E-06
B	2.0	0.24	3218.	0.	0.	404.8	392.6	404.8	1.005E-06	1.003E-06	1.003E-06
B	3.0	0.95	3218.	0.	0.	404.8	392.6	404.8	6.695E-07	6.682E-07	6.682E-07
B	4.0	0.71	3218.	0.	0.	404.8	392.6	404.8	5.019E-07	5.010E-07	5.010E-07
B	5.0	0.88	3218.	0.	0.	404.8	392.6	404.8	4.018E-07	4.011E-07	4.011E-07
B	6.0	0.61	3218.	0.	0.	404.8	392.6	404.8	3.348E-07	3.341E-07	3.341E-07
B	8.0	0.78	3218.	0.	0.	404.8	392.6	404.8	2.510E-07	2.505E-07	2.505E-07
B	10.0	0.07	3218.	0.	0.	404.8	392.6	404.8	2.008E-07	2.004E-07	2.004E-07
C	1.2	0.07	3218.	0.	0.	307.4	177.2	307.4	4.681E-06	4.655E-06	4.655E-06
C	1.5	0.03	3218.	0.	0.	307.4	177.2	307.4	3.900E-06	3.879E-06	3.879E-06
C	2.0	0.27	3218.	0.	0.	307.4	177.2	307.4	2.932E-06	2.916E-06	2.916E-06
C	3.0	0.31	3218.	0.	0.	307.4	177.2	307.4	1.953E-06	1.942E-06	1.942E-06
C	4.0	0.31	3218.	0.	0.	307.4	177.2	307.4	1.464E-06	1.456E-06	1.456E-06
C	5.0	0.58	3218.	0.	0.	307.4	177.2	307.4	1.172E-06	1.166E-06	1.166E-06
C	6.0	0.34	3218.	0.	0.	307.4	177.2	307.4	9.766E-07	9.711E-07	9.711E-07
C	8.0	0.31	3218.	0.	0.	307.4	177.2	307.4	7.322E-07	7.281E-07	7.281E-07
C	10.0	0.03	3218.	0.	0.	307.4	177.2	307.4	5.859E-07	5.826E-07	5.826E-07
D	0.4	0.04	3218.	0.	0.	216.4	68.3	278.0	4.040E-05	5.085E-05	4.040E-05
D	0.5	0.03	3218.	0.	0.	216.4	68.3	278.0	3.355E-05	4.222E-05	3.355E-05
D	0.7	0.24	3218.	0.	0.	216.4	68.3	278.0	2.237E-05	2.815E-05	2.237E-05
D	1.0	0.31	3218.	0.	0.	216.4	68.3	278.0	1.677E-05	2.111E-05	1.677E-05
D	1.2	0.44	3218.	0.	0.	216.4	68.3	278.0	1.342E-05	1.689E-05	1.342E-05
D	1.5	0.88	3218.	0.	0.	216.4	68.3	278.0	1.118E-05	1.407E-05	1.118E-05
D	2.0	1.63	3218.	0.	0.	216.4	68.3	278.0	8.406E-06	1.058E-05	8.406E-06
D	3.0	4.39	3218.	0.	0.	216.4	68.3	250.4	6.218E-06	7.048E-06	6.218E-06
D	4.0	4.76	3218.	0.	0.	216.4	68.3	234.5	4.977E-06	5.284E-06	4.977E-06

D	5.0	4.39	3218.	0.	0.	216.4	68.3	224.1	4.170E-06	4.230E-06	4.170E-06
D	6.0	3.33	3218.	0.	0.	216.4	68.3	216.5	3.595E-06	3.524E-06	3.524E-06
D	8.0	3.57	3218.	0.	0.	216.4	68.3	216.4	2.696E-06	2.642E-06	2.642E-06
D	10.0	1.29	3218.	0.	0.	216.4	68.3	216.4	2.158E-06	2.114E-06	2.114E-06
D	24.5	0.44	3218.	0.	0.	216.4	68.3	216.4	8.775E-07	8.598E-07	8.598E-07
E	0.4	0.16	3218.	0.	0.	153.9	45.0	241.5	7.076E-05	1.063E-04	7.076E-05
E	0.5	0.20	3218.	0.	0.	153.9	45.0	241.5	5.875E-05	8.830E-05	5.875E-05
E	0.7	0.54	3218.	0.	0.	153.9	45.0	241.5	3.917E-05	5.887E-05	3.917E-05
E	1.0	1.29	3218.	0.	0.	153.9	45.0	241.5	2.938E-05	4.415E-05	2.938E-05
E	1.2	1.46	3218.	0.	0.	153.9	45.0	241.5	2.350E-05	3.532E-05	2.350E-05
E	1.5	2.21	3218.	0.	0.	153.9	45.0	241.5	1.958E-05	2.943E-05	1.958E-05
E	2.0	5.37	3218.	0.	0.	153.9	45.0	241.5	1.472E-05	2.213E-05	1.472E-05
E	3.0	10.50	3218.	0.	0.	153.9	45.0	198.1	1.195E-05	1.474E-05	1.195E-05
E	4.0	9.38	3218.	0.	0.	153.9	45.0	176.1	1.008E-05	1.105E-05	1.008E-05
E	5.0	5.40	3218.	0.	0.	153.9	45.0	162.9	8.722E-06	8.846E-06	8.722E-06
E	6.0	2.58	3218.	0.	0.	153.9	45.0	154.1	7.682E-06	7.370E-06	7.370E-06
E	8.0	2.11	3218.	0.	0.	153.9	45.0	153.9	5.768E-06	5.525E-06	5.525E-06
E	10.0	0.37	3218.	0.	0.	153.9	45.0	153.9	4.615E-06	4.421E-06	4.421E-06
F	0.4	0.22	3218.	0.	0.	106.2	28.6	196.9	1.365E-04	2.299E-04	1.365E-04
F	0.5	0.17	3218.	0.	0.	106.2	28.6	196.9	1.133E-04	1.909E-04	1.133E-04
F	0.7	0.54	3218.	0.	0.	106.2	28.6	196.9	7.554E-05	1.273E-04	7.554E-05
F	1.0	0.75	3218.	0.	0.	106.2	28.6	196.9	5.665E-05	9.545E-05	5.665E-05
F	1.2	1.22	3218.	0.	0.	106.2	28.6	196.9	4.532E-05	7.636E-05	4.532E-05
F	1.5	1.33	3218.	0.	0.	106.2	28.6	196.9	3.777E-05	6.363E-05	3.777E-05
F	2.0	2.58	3218.	0.	0.	106.2	28.6	196.9	2.839E-05	4.783E-05	2.839E-05
F	3.0	2.92	3218.	0.	0.	106.2	28.6	148.9	2.500E-05	3.186E-05	2.500E-05
F	4.0	0.34	3218.	0.	0.	106.2	28.6	126.7	2.203E-05	2.389E-05	2.203E-05
F	5.0	0.27	3218.	0.	0.	106.2	28.6	114.3	1.955E-05	1.912E-05	1.912E-05
F	8.0	0.03	3218.	0.	0.	106.2	28.6	106.2	1.314E-05	1.194E-05	1.194E-05
G	0.4	0.31	3218.	0.	0.	73.3	18.2	177.6	2.378E-04	4.692E-04	2.378E-04
G	0.5	0.37	3218.	0.	0.	73.3	18.2	177.6	1.975E-04	3.896E-04	1.975E-04
G	0.7	0.68	3218.	0.	0.	73.3	18.2	177.6	1.317E-04	2.597E-04	1.317E-04
G	1.0	1.12	3218.	0.	0.	73.3	18.2	177.6	9.875E-05	1.948E-04	9.875E-05
G	1.2	0.99	3218.	0.	0.	73.3	18.2	177.6	7.900E-05	1.558E-04	7.900E-05
G	1.5	0.92	3218.	0.	0.	73.3	18.2	177.6	6.583E-05	1.299E-04	6.583E-05
G	2.0	0.99	3218.	0.	0.	73.3	18.2	177.6	4.948E-05	9.762E-05	4.948E-05
G	3.0	0.51	3218.	0.	0.	73.3	18.2	117.6	4.979E-05	6.503E-05	4.979E-05
G	4.0	0.10	3218.	0.	0.	73.3	18.2	93.2	4.711E-05	4.876E-05	4.711E-05

USNRC COMPUTER CODE-PAVAN, VERSION 2.0

RUN DATE: 03/07/07

PLANT NAME: Oyster Creek

METEOROLOGICAL INSTRUMENTATION

DATA PERIOD:

WIND SENSORS HEIGHT: Ground

TYPE OF RELEASE: Ground Release

DELTA-T HEIGHTS: 10.1-45.7 meters

SOURCE OF DATA:

COMMENTS: Oyster Creek, Ground Release, 1995-1999 met data

PROGRAM: PAVAN, 10/76, 8/79 REVISION, IMPLEMENTATION OF REGULATORY GUIDE 1.145

LOW POPULATION ZONE CALCULATIONS:

NNE SECTOR BOUNDARY DISTANCE = 3218.0 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= 1913. D= 44.8

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.

2.378E-04	1.975E-04	1.365E-04	1.317E-04	1.133E-04	9.875E-05	7.900E-05	7.554E-05	7.076E-05	6.583E-05
0.315	0.689	0.910	1.590	1.760	2.881	3.867	4.411	4.572	5.490
0.02194	0.04800	0.06341	0.11078	0.12263	0.20080	0.26949	0.30739	0.31859	0.38255
5.875E-05	5.665E-05	4.979E-05	4.948E-05	4.711E-05	4.532E-05	4.040E-05	3.917E-05	3.777E-05	3.355E-05
5.694	6.441	6.951	7.937	8.039	9.263	9.305	9.849	11.175	11.209
0.39676	0.44888	0.48441	0.55310	0.56021	0.64549	0.64847	0.68637	0.77875	0.78112
2.938E-05	2.839E-05	2.500E-05	2.350E-05	2.237E-05	2.203E-05	1.958E-05	1.912E-05	1.677E-05	1.472E-05
12.501	15.084	18.008	19.469	19.707	20.047	22.257	22.529	22.835	28.205
0.87114	1.05117	1.25489	1.35675	1.37333	1.39702	1.55099	1.56994	1.59126	1.96554
1.342E-05	1.195E-05	1.194E-05	1.118E-05	1.008E-05	8.722E-06	8.406E-06	7.370E-06	6.218E-06	5.525E-06
28.647	39.151	39.185	40.069	49.451	54.856	56.487	59.071	63.456	65.563
1.99633	2.72830	2.73067	2.79226	3.44605	3.82270	3.93640	4.11643	4.42201	4.56888
4.977E-06	4.655E-06	4.421E-06	4.170E-06	3.879E-06	3.524E-06	2.916E-06	2.642E-06	2.114E-06	2.002E-06
70.322	70.390	70.764	75.149	75.183	78.514	78.786	82.355	83.647	83.681
4.90051	4.90525	4.93131	5.23688	5.23925	5.47140	5.49035	5.73908	5.82909	5.83146
1.942E-06	1.601E-06	1.456E-06	1.425E-06	1.334E-06	1.166E-06	1.003E-06	9.711E-07	8.598E-07	7.890E-07
83.987	84.055	84.361	84.363	84.397	84.975	85.213	85.553	85.995	86.029
5.85278	5.85752	5.87884	5.87900	5.88137	5.92164	5.93822	5.96191	5.99270	5.99507
7.281E-07	6.682E-07	5.826E-07	5.010E-07	4.734E-07	4.011E-07	3.945E-07	3.341E-07	2.965E-07	2.505E-07
86.335	87.287	87.321	88.035	88.103	88.986	89.122	89.734	90.108	90.890
6.01639	6.08272	6.08509	6.13483	6.13957	6.20116	6.21064	6.25328	6.27933	6.33382
2.004E-07	1.975E-07	1.481E-07	1.186E-07	9.877E-08	7.405E-08	5.926E-08	2.410E-08		
90.958	92.386	93.473	95.411	97.145	99.490	99.966	100.000		
6.33855	6.43804	6.51385	6.64887	6.76968	6.93313	6.96629	6.96866		

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)= 0.201  
 HANDCHECK GRAPH: SLOPE LT -1.0 FOR LOW PERCENTAGES. XSAVE ( 4)= 0.382  
 HANDCHECK GRAPH: SLOPE LT -1.0 FOR LOW PERCENTAGES. XSAVE ( 5)= 0.645  
 HANDCHECK GRAPH: SLOPE LT -1.0 FOR LOW PERCENTAGES. XSAVE ( 6)= 1.355  
 HANDCHECK GRAPH: SLOPE LT -1.0 FOR LOW PERCENTAGES. XSAVE ( 7)= 2.728  
 HANDCHECK GRAPH: SLOPE LT -1.0 FOR LOW PERCENTAGES. XSAVE ( 8)= 3.443  
 HANDCHECK GRAPH: SLOPE LT -1.0 FOR LOW PERCENTAGES. XSAVE ( 9)= 3.933  
 HANDCHECK GRAPH: SLOPE LT -1.0 FOR LOW PERCENTAGES. XSAVE (10)= 4.897  
 HANDCHECK GRAPH: SLOPE LT -1.0 FOR LOW PERCENTAGES. XSAVE (11)= 5.233

K	I	XQSAVE(K, I)	XQINT(K, I)	XQSLOP(K, I)	
10	1	-8.34389	-11.40546	-0.87083	
10	2	-8.52979	-13.91595	-1.63107	
10	3	-9.22294	-14.78455	-1.93296	
10	4	-9.62841	-15.13589	-2.06467	
10	5	-10.00173	-15.90472	-2.37385	
10	6	-10.65847	-15.85796	-2.35269	
10	7	-11.33522	-14.50050	-1.64656	
10	8	-11.50485	-16.93994	-2.98739	
10	9	-11.68659	-20.58438	-5.05985	
10	10	-12.21064	-21.28351	-5.48230	
10	11	-12.38762			NUMXQ(K)= 11
		1.661E-04	0.070		1.000
		9.634E-05	0.209		3.000
		6.993E-05	0.348		5.000
		4.247E-05	0.697		10.000
		2.980E-05	1.045		15.000
		2.293E-05	1.394		20.000
		1.860E-05	1.742		25.000
		1.560E-05	2.091		30.000
		1.339E-05	2.439		35.000
		1.177E-05	2.787		40.000
		1.081E-05	3.136		45.000
		9.932E-06	3.484		50.000
		8.721E-06	3.833		55.000
		7.292E-06	4.181		60.000
		6.024E-06	4.530		65.000
		5.033E-06	4.878		70.000
		4.192E-06	5.226		75.000
		5.453E-05	0.5		7.17

ANNUAL AVERAGE = 4.51E-07

K= 10 FIVEXQ(K)= 5.453E-05 FIVEPR(K)= 7.175

USNRC COMPUTER CODE-PAVAN, VERSION 2.0

RUN DATE: 03/07/07

PLANT NAME: Oyster Creek

METEOROLOGICAL INSTRUMENTATION

DATA PERIOD:

WIND SENSORS HEIGHT: Ground

TYPE OF RELEASE: Ground Release

DELTA-T HEIGHTS: 10.1-45.7 meters

SOURCE OF DATA:

COMMENTS: Oyster Creek, Ground Release, 1995-1999 met data

PROGRAM: PAVAN, 10/76, 8/79 REVISION, IMPLEMENTATION OF REGULATORY GUIDE 1.145

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

CLASS	METER/SEC	PERCENT	METERS	METERS	METERS	SIGMA-Y	SIGMA-Z	MEANDER-SY	** CHI/Q VALUES (SEC/CUBIC METER)			
									MEANDER	BLDG WAKE	USED	
									CA= 957.SQ.METERS			
AT 10.0 METERS												
A	0.4	0.00	3218.	0.	0.	538.2	1000.0	538.2	1.426E-06	1.425E-06	1.425E-06	
A	1.2	0.07	3218.	0.	0.	538.2	1000.0	538.2	4.737E-07	4.734E-07	4.734E-07	
A	1.5	0.18	3218.	0.	0.	538.2	1000.0	538.2	3.947E-07	3.945E-07	3.945E-07	
A	2.0	0.65	3218.	0.	0.	538.2	1000.0	538.2	2.967E-07	2.965E-07	2.965E-07	
A	3.0	2.03	3218.	0.	0.	538.2	1000.0	538.2	1.977E-07	1.975E-07	1.975E-07	
A	4.0	1.49	3218.	0.	0.	538.2	1000.0	538.2	1.482E-07	1.481E-07	1.481E-07	
A	5.0	2.17	3218.	0.	0.	538.2	1000.0	538.2	1.186E-07	1.186E-07	1.186E-07	
A	6.0	1.01	3218.	0.	0.	538.2	1000.0	538.2	9.883E-08	9.877E-08	9.877E-08	
A	8.0	0.72	3218.	0.	0.	538.2	1000.0	538.2	7.409E-08	7.405E-08	7.405E-08	
A	10.0	0.18	3218.	0.	0.	538.2	1000.0	538.2	5.929E-08	5.926E-08	5.926E-08	
A	24.5	0.11	3218.	0.	0.	538.2	1000.0	538.2	2.411E-08	2.410E-08	2.410E-08	
B	1.0	0.04	3218.	0.	0.	404.8	392.6	404.8	2.006E-06	2.002E-06	2.002E-06	
B	1.2	0.04	3218.	0.	0.	404.8	392.6	404.8	1.604E-06	1.601E-06	1.601E-06	
B	1.5	0.11	3218.	0.	0.	404.8	392.6	404.8	1.337E-06	1.334E-06	1.334E-06	
B	2.0	0.25	3218.	0.	0.	404.8	392.6	404.8	1.005E-06	1.003E-06	1.003E-06	
B	3.0	1.09	3218.	0.	0.	404.8	392.6	404.8	6.695E-07	6.682E-07	6.682E-07	
B	4.0	0.80	3218.	0.	0.	404.8	392.6	404.8	5.019E-07	5.010E-07	5.010E-07	
B	5.0	0.43	3218.	0.	0.	404.8	392.6	404.8	4.018E-07	4.011E-07	4.011E-07	
B	6.0	0.18	3218.	0.	0.	404.8	392.6	404.8	3.348E-07	3.341E-07	3.341E-07	
B	8.0	0.25	3218.	0.	0.	404.8	392.6	404.8	2.510E-07	2.505E-07	2.505E-07	
B	10.0	0.04	3218.	0.	0.	404.8	392.6	404.8	2.008E-07	2.004E-07	2.004E-07	
C	1.2	0.07	3218.	0.	0.	307.4	177.2	307.4	4.681E-06	4.655E-06	4.655E-06	
C	1.5	0.11	3218.	0.	0.	307.4	177.2	307.4	3.900E-06	3.879E-06	3.879E-06	
C	2.0	0.22	3218.	0.	0.	307.4	177.2	307.4	2.932E-06	2.916E-06	2.916E-06	
C	3.0	0.43	3218.	0.	0.	307.4	177.2	307.4	1.953E-06	1.942E-06	1.942E-06	
C	4.0	0.29	3218.	0.	0.	307.4	177.2	307.4	1.464E-06	1.456E-06	1.456E-06	
C	5.0	0.22	3218.	0.	0.	307.4	177.2	307.4	1.172E-06	1.166E-06	1.166E-06	
C	6.0	0.11	3218.	0.	0.	307.4	177.2	307.4	9.766E-07	9.711E-07	9.711E-07	
C	8.0	0.07	3218.	0.	0.	307.4	177.2	307.4	7.322E-07	7.281E-07	7.281E-07	
C	10.0	0.07	3218.	0.	0.	307.4	177.2	307.4	5.859E-07	5.826E-07	5.826E-07	
C	24.5	0.04	3218.	0.	0.	307.4	177.2	307.4	2.383E-07	2.370E-07	2.370E-07	
D	0.4	0.05	3218.	0.	0.	216.4	68.3	278.0	4.040E-05	5.085E-05	4.040E-05	
D	0.5	0.07	3218.	0.	0.	216.4	68.3	278.0	3.355E-05	4.222E-05	3.355E-05	
D	0.7	0.25	3218.	0.	0.	216.4	68.3	278.0	2.237E-05	2.815E-05	2.237E-05	
D	1.0	0.40	3218.	0.	0.	216.4	68.3	278.0	1.677E-05	2.111E-05	1.677E-05	
D	1.2	0.43	3218.	0.	0.	216.4	68.3	278.0	1.342E-05	1.689E-05	1.342E-05	
D	1.5	0.83	3218.	0.	0.	216.4	68.3	278.0	1.118E-05	1.407E-05	1.118E-05	
D	2.0	1.30	3218.	0.	0.	216.4	68.3	278.0	8.406E-06	1.058E-05	8.406E-06	
D	3.0	3.41	3218.	0.	0.	216.4	68.3	250.4	6.218E-06	7.048E-06	6.218E-06	
D	4.0	2.75	3218.	0.	0.	216.4	68.3	234.5	4.977E-06	5.284E-06	4.977E-06	

D	5.0	1.88	3218.	0.	0.	216.4	68.3	224.1	4.170E-06	4.230E-06	4.170E-06
D	6.0	0.87	3218.	0.	0.	216.4	68.3	216.5	3.595E-06	3.524E-06	3.524E-06
D	8.0	1.01	3218.	0.	0.	216.4	68.3	216.4	2.696E-06	2.642E-06	2.642E-06
D	10.0	0.22	3218.	0.	0.	216.4	68.3	216.4	2.158E-06	2.114E-06	2.114E-06
E	0.4	0.18	3218.	0.	0.	153.9	45.0	241.5	7.076E-05	1.063E-04	7.076E-05
E	0.5	0.22	3218.	0.	0.	153.9	45.0	241.5	5.875E-05	8.830E-05	5.875E-05
E	0.7	0.40	3218.	0.	0.	153.9	45.0	241.5	3.917E-05	5.887E-05	3.917E-05
E	1.0	1.70	3218.	0.	0.	153.9	45.0	241.5	2.938E-05	4.415E-05	2.938E-05
E	1.2	1.70	3218.	0.	0.	153.9	45.0	241.5	2.350E-05	3.532E-05	2.350E-05
E	1.5	2.57	3218.	0.	0.	153.9	45.0	241.5	1.958E-05	2.943E-05	1.958E-05
E	2.0	6.20	3218.	0.	0.	153.9	45.0	241.5	1.472E-05	2.213E-05	1.472E-05
E	3.0	14.43	3218.	0.	0.	153.9	45.0	198.1	1.195E-05	1.474E-05	1.195E-05
E	4.0	9.46	3218.	0.	0.	153.9	45.0	176.1	1.008E-05	1.105E-05	1.008E-05
E	5.0	3.23	3218.	0.	0.	153.9	45.0	162.9	8.722E-06	8.846E-06	8.722E-06
E	6.0	1.27	3218.	0.	0.	153.9	45.0	154.1	7.682E-06	7.370E-06	7.370E-06
E	8.0	0.47	3218.	0.	0.	153.9	45.0	153.9	5.768E-06	5.525E-06	5.525E-06
E	10.0	0.04	3218.	0.	0.	153.9	45.0	153.9	4.615E-06	4.421E-06	4.421E-06
F	0.4	0.26	3218.	0.	0.	106.2	28.6	196.9	1.365E-04	2.299E-04	1.365E-04
F	0.5	0.18	3218.	0.	0.	106.2	28.6	196.9	1.133E-04	1.909E-04	1.133E-04
F	0.7	0.65	3218.	0.	0.	106.2	28.6	196.9	7.554E-05	1.273E-04	7.554E-05
F	1.0	0.80	3218.	0.	0.	106.2	28.6	196.9	5.665E-05	9.545E-05	5.665E-05
F	1.2	1.56	3218.	0.	0.	106.2	28.6	196.9	4.532E-05	7.636E-05	4.532E-05
F	1.5	1.81	3218.	0.	0.	106.2	28.6	196.9	3.777E-05	6.363E-05	3.777E-05
F	2.0	3.70	3218.	0.	0.	106.2	28.6	196.9	2.839E-05	4.783E-05	2.839E-05
F	3.0	5.15	3218.	0.	0.	106.2	28.6	148.9	2.500E-05	3.186E-05	2.500E-05
F	4.0	1.12	3218.	0.	0.	106.2	28.6	126.7	2.203E-05	2.389E-05	2.203E-05
F	5.0	0.22	3218.	0.	0.	106.2	28.6	114.3	1.955E-05	1.912E-05	1.912E-05
F	6.0	0.07	3218.	0.	0.	106.2	28.6	106.4	1.749E-05	1.593E-05	1.593E-05
G	0.4	0.58	3218.	0.	0.	73.3	18.2	177.6	2.378E-04	4.692E-04	2.378E-04
G	0.5	0.36	3218.	0.	0.	73.3	18.2	177.6	1.975E-04	3.896E-04	1.975E-04
G	0.7	1.12	3218.	0.	0.	73.3	18.2	177.6	1.317E-04	2.597E-04	1.317E-04
G	1.0	2.25	3218.	0.	0.	73.3	18.2	177.6	9.875E-05	1.948E-04	9.875E-05
G	1.2	2.14	3218.	0.	0.	73.3	18.2	177.6	7.900E-05	1.558E-04	7.900E-05
G	1.5	3.15	3218.	0.	0.	73.3	18.2	177.6	6.583E-05	1.299E-04	6.583E-05
G	2.0	3.81	3218.	0.	0.	73.3	18.2	177.6	4.948E-05	9.762E-05	4.948E-05
G	3.0	2.03	3218.	0.	0.	73.3	18.2	117.6	4.979E-05	6.503E-05	4.979E-05
G	4.0	0.04	3218.	0.	0.	73.3	18.2	93.2	4.711E-05	4.876E-05	4.711E-05
G	5.0	0.04	3218.	0.	0.	73.3	18.2	80.8	4.350E-05	3.903E-05	3.903E-05
G	6.0	0.07	3218.	0.	0.	73.3	18.2	73.5	3.983E-05	3.252E-05	3.252E-05
G	8.0	0.04	3218.	0.	0.	73.3	18.2	73.3	2.994E-05	2.438E-05	2.438E-05

USNRC COMPUTER CODE-PAVAN, VERSION 2.0

RUN DATE: 03/07/07

PLANT NAME: Oyster Creek

METEOROLOGICAL INSTRUMENTATION

DATA PERIOD:

WIND SENSORS HEIGHT: Ground

TYPE OF RELEASE: Ground Release

DELTA-T HEIGHTS: 10.1-45.7 meters

SOURCE OF DATA:

COMMENTS: Oyster Creek, Ground Release, 1995-1999 met data

PROGRAM: PAVAN, 10/76, 8/79 REVISION, IMPLEMENTATION OF REGULATORY GUIDE 1.145

LOW POPULATION ZONE CALCULATIONS:

NE SECTOR BOUNDARY DISTANCE = 3218.0 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= 1913. D= 44.8

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.

2.378E-04	1.975E-04	1.365E-04	1.317E-04	1.133E-04	9.875E-05	7.900E-05	7.554E-05	7.076E-05	6.583E-05
0.585	0.947	1.210	2.334	2.515	4.762	6.901	7.553	7.738	10.891
0.03823	0.06191	0.07907	0.15251	0.16435	0.31122	0.45098	0.49362	0.50568	0.71177
5.875E-05	5.665E-05	4.979E-05	4.948E-05	4.711E-05	4.532E-05	4.040E-05	3.917E-05	3.903E-05	3.777E-05
11.109	11.906	13.936	17.742	17.778	19.337	19.385	19.784	19.820	21.633
0.72598	0.77810	0.91075	1.15948	1.16185	1.26371	1.26689	1.29294	1.29531	1.41375
3.355E-05	3.252E-05	2.938E-05	2.839E-05	2.500E-05	2.438E-05	2.350E-05	2.237E-05	2.203E-05	1.958E-05
21.705	21.778	23.481	27.178	32.325	32.362	34.065	34.319	35.443	38.016
1.41849	1.42323	1.53456	1.77618	2.11256	2.11493	2.22626	2.24284	2.31628	2.48446
1.912E-05	1.677E-05	1.593E-05	1.472E-05	1.342E-05	1.195E-05	1.118E-05	1.008E-05	8.722E-06	8.406E-06
38.234	38.632	38.705	44.903	45.338	59.764	60.598	70.058	73.284	74.589
2.49868	2.52473	2.52947	2.93454	2.96297	3.90576	3.96024	4.57851	4.78933	4.87461
7.370E-06	6.218E-06	5.525E-06	4.977E-06	4.655E-06	4.421E-06	4.170E-06	3.879E-06	3.524E-06	2.916E-06
75.858	79.265	79.736	82.491	82.564	82.600	84.485	84.593	85.463	85.681
4.95752	5.18019	5.21098	5.39101	5.39575	5.39812	5.52130	5.52841	5.58526	5.59947
2.642E-06	2.114E-06	2.002E-06	1.942E-06	1.601E-06	1.456E-06	1.425E-06	1.334E-06	1.166E-06	1.003E-06
86.696	86.913	86.949	87.384	87.421	87.711	87.712	87.821	88.039	88.292
5.66580	5.68001	5.68238	5.71081	5.71317	5.73213	5.73224	5.73934	5.75356	5.77014
9.711E-07	7.281E-07	6.682E-07	5.826E-07	5.010E-07	4.734E-07	4.011E-07	3.945E-07	3.341E-07	2.965E-07
88.401	88.474	89.561	89.633	90.431	90.503	90.938	91.120	91.301	91.953
5.77724	5.78198	5.85305	5.85778	5.90990	5.91464	5.94306	5.95491	5.96675	6.00939
2.505E-07	2.370E-07	2.004E-07	1.975E-07	1.481E-07	1.186E-07	9.877E-08	7.405E-08	5.926E-08	2.410E-08
92.207	92.243	92.279	94.309	95.795	97.970	98.985	99.710	99.891	100.000
6.02597	6.02834	6.03071	6.16336	6.26049	6.40262	6.46894	6.51632	6.52816	6.53527

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)= 0.062  
 HANDCHECK GRAPH: SLOPE LT -1.0 FOR LOW PERCENTAGES. XSAVE ( 3)= 0.311  
 HANDCHECK GRAPH: SLOPE LT -1.0 FOR LOW PERCENTAGES. XSAVE ( 4)= 0.711  
 HANDCHECK GRAPH: SLOPE LT -1.0 FOR LOW PERCENTAGES. XSAVE ( 5)= 1.158  
 HANDCHECK GRAPH: SLOPE LT -1.0 FOR LOW PERCENTAGES. XSAVE ( 6)= 1.262  
 HANDCHECK GRAPH: SLOPE LT -1.0 FOR LOW PERCENTAGES. XSAVE ( 7)= 2.110  
 HANDCHECK GRAPH: SLOPE LT -1.0 FOR LOW PERCENTAGES. XSAVE ( 8)= 2.224  
 HANDCHECK GRAPH: SLOPE LT -1.0 FOR LOW PERCENTAGES. XSAVE ( 9)= 3.902  
 HANDCHECK GRAPH: SLOPE LT -1.0 FOR LOW PERCENTAGES. XSAVE (10)= 4.575  
 HANDCHECK GRAPH: SLOPE LT -1.0 FOR LOW PERCENTAGES. XSAVE (11)= 4.871  
 HANDCHECK GRAPH: SLOPE LT -1.0 FOR LOW PERCENTAGES. XSAVE (12)= 5.176  
 HANDCHECK GRAPH: SLOPE LT -1.0 FOR LOW PERCENTAGES. XSAVE (13)= 5.387

K	I	XQSAVE(K, I)	XQINT(K, I)	XQSLOP(K, I)
11	1	-8.34389	-12.96536	-1.37317
11	2	-8.52979	-13.06155	-1.40295
11	3	-9.22294	-13.12367	-1.42566
11	4	-9.62841	-13.49584	-1.57745
11	5	-9.91385	-15.94107	-2.65430
11	6	-10.00173	-16.45904	-2.88578
11	7	-10.59665	-16.32456	-2.81958
11	8	-10.65847	-16.15034	-2.73289
11	9	-11.33466	-15.35594	-2.28207
11	10	-11.50485	-21.71198	-6.04850
11	11	-11.68659	-28.61548	-10.21352
11	12	-11.98807	-30.50536	-11.37440
11	13	-12.21064	NUMXQ(K)= 13	
		1.933E-04	0.065	1.000
		1.217E-04	0.196	3.000
		9.651E-05	0.327	5.000
		6.876E-05	0.654	10.000
		5.470E-05	0.980	15.000
		4.364E-05	1.307	20.000
		3.385E-05	1.634	25.000
		2.733E-05	1.961	30.000
		2.278E-05	2.287	35.000
		1.950E-05	2.614	40.000
		1.695E-05	2.941	45.000
		1.492E-05	3.268	50.000
		1.326E-05	3.594	55.000
		1.190E-05	3.921	60.000
		1.093E-05	4.248	65.000
		1.009E-05	4.575	70.000
		8.181E-06	4.901	75.000
		5.907E-06	5.228	80.000
		7.862E-05	0.5	7.65

ANNUAL AVERAGE = 5.93E-07

K= 11      FIVEXQ(K) = 7.862E-05      FIVEPR(K) = 7.651

USNRC COMPUTER CODE-PAVAN, VERSION 2.0

RUN DATE: 03/07/07

PLANT NAME: Oyster Creek  
 DATA PERIOD:  
 TYPE OF RELEASE: Ground Release  
 SOURCE OF DATA:  
 COMMENTS: Oyster Creek, Ground Release, 1995-1999 met data  
 PROGRAM: PAVAN, 10/76, 8/79 REVISION, IMPLEMENTATION OF REGULATORY GUIDE 1.145

METEOROLOGICAL INSTRUMENTATION  
 WIND SENSORS HEIGHT: Ground  
 DELTA-T HEIGHTS: 10.1-45.7 meters

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

CLASS	METER/SEC AT 10.0 METERS	PERCENT	METERS	METERS	METERS	HT	SIGMA-Y METERS	SIGMA-Z METERS	MEANDER-SY METERS	** CHI/Q VALUES (SEC/CUBIC METER)		
										MEANDER	BLDG WAKE	USED
CA= 957.SQ.METERS												
A	0.4	0.00	3218.	0.	0.		538.2	1000.0	538.2	1.426E-06	1.425E-06	1.425E-06
A	0.7	0.02	3218.	0.	0.		538.2	1000.0	538.2	7.895E-07	7.890E-07	7.890E-07
A	1.2	0.05	3218.	0.	0.		538.2	1000.0	538.2	4.737E-07	4.734E-07	4.734E-07
A	1.5	0.09	3218.	0.	0.		538.2	1000.0	538.2	3.947E-07	3.945E-07	3.945E-07
A	2.0	0.38	3218.	0.	0.		538.2	1000.0	538.2	2.967E-07	2.965E-07	2.965E-07
A	3.0	1.35	3218.	0.	0.		538.2	1000.0	538.2	1.977E-07	1.975E-07	1.975E-07
A	4.0	2.08	3218.	0.	0.		538.2	1000.0	538.2	1.482E-07	1.481E-07	1.481E-07
A	5.0	1.90	3218.	0.	0.		538.2	1000.0	538.2	1.186E-07	1.186E-07	1.186E-07
A	6.0	1.11	3218.	0.	0.		538.2	1000.0	538.2	9.883E-08	9.877E-08	9.877E-08
A	8.0	0.59	3218.	0.	0.		538.2	1000.0	538.2	7.409E-08	7.405E-08	7.405E-08
A	10.0	0.07	3218.	0.	0.		538.2	1000.0	538.2	5.929E-08	5.926E-08	5.926E-08
B	1.2	0.02	3218.	0.	0.		404.8	392.6	404.8	1.604E-06	1.601E-06	1.601E-06
B	1.5	0.14	3218.	0.	0.		404.8	392.6	404.8	1.337E-06	1.334E-06	1.334E-06
B	2.0	0.23	3218.	0.	0.		404.8	392.6	404.8	1.005E-06	1.003E-06	1.003E-06
B	3.0	1.02	3218.	0.	0.		404.8	392.6	404.8	6.695E-07	6.682E-07	6.682E-07
B	4.0	0.97	3218.	0.	0.		404.8	392.6	404.8	5.019E-07	5.010E-07	5.010E-07
B	5.0	0.68	3218.	0.	0.		404.8	392.6	404.8	4.018E-07	4.011E-07	4.011E-07
B	6.0	0.25	3218.	0.	0.		404.8	392.6	404.8	3.348E-07	3.341E-07	3.341E-07
B	8.0	0.29	3218.	0.	0.		404.8	392.6	404.8	2.510E-07	2.505E-07	2.505E-07
C	1.2	0.07	3218.	0.	0.		307.4	177.2	307.4	4.681E-06	4.655E-06	4.655E-06
C	1.5	0.02	3218.	0.	0.		307.4	177.2	307.4	3.900E-06	3.879E-06	3.879E-06
C	2.0	0.14	3218.	0.	0.		307.4	177.2	307.4	2.932E-06	2.916E-06	2.916E-06
C	3.0	0.43	3218.	0.	0.		307.4	177.2	307.4	1.953E-06	1.942E-06	1.942E-06
C	4.0	0.38	3218.	0.	0.		307.4	177.2	307.4	1.464E-06	1.456E-06	1.456E-06
C	5.0	0.29	3218.	0.	0.		307.4	177.2	307.4	1.172E-06	1.166E-06	1.166E-06
C	6.0	0.09	3218.	0.	0.		307.4	177.2	307.4	9.766E-07	9.711E-07	9.711E-07
C	8.0	0.07	3218.	0.	0.		307.4	177.2	307.4	7.322E-07	7.281E-07	7.281E-07
C	10.0	0.02	3218.	0.	0.		307.4	177.2	307.4	5.859E-07	5.826E-07	5.826E-07
D	0.4	0.03	3218.	0.	0.		216.4	68.3	278.0	4.040E-05	5.085E-05	4.040E-05
D	0.5	0.05	3218.	0.	0.		216.4	68.3	278.0	3.355E-05	4.222E-05	3.355E-05
D	0.7	0.11	3218.	0.	0.		216.4	68.3	278.0	2.237E-05	2.815E-05	2.237E-05
D	1.0	0.25	3218.	0.	0.		216.4	68.3	278.0	1.677E-05	2.111E-05	1.677E-05
D	1.2	0.27	3218.	0.	0.		216.4	68.3	278.0	1.342E-05	1.689E-05	1.342E-05
D	1.5	0.52	3218.	0.	0.		216.4	68.3	278.0	1.118E-05	1.407E-05	1.118E-05
D	2.0	1.06	3218.	0.	0.		216.4	68.3	278.0	8.406E-06	1.058E-05	8.406E-06
D	3.0	2.73	3218.	0.	0.		216.4	68.3	250.4	6.218E-06	7.048E-06	6.218E-06
D	4.0	2.73	3218.	0.	0.		216.4	68.3	234.5	4.977E-06	5.284E-06	4.977E-06
D	5.0	1.65	3218.	0.	0.		216.4	68.3	224.1	4.170E-06	4.230E-06	4.170E-06
D	6.0	0.79	3218.	0.	0.		216.4	68.3	216.5	3.595E-06	3.524E-06	3.524E-06
D	8.0	0.54	3218.	0.	0.		216.4	68.3	216.4	2.696E-06	2.642E-06	2.642E-06

D	10.0	0.05	3218.	0.	0.	216.4	68.3	216.4	2.158E-06	2.114E-06	2.114E-06
E	0.4	0.10	3218.	0.	0.	153.9	45.0	241.5	7.076E-05	1.063E-04	7.076E-05
E	0.5	0.09	3218.	0.	0.	153.9	45.0	241.5	5.875E-05	8.830E-05	5.875E-05
E	0.7	0.34	3218.	0.	0.	153.9	45.0	241.5	3.917E-05	5.887E-05	3.917E-05
E	1.0	0.79	3218.	0.	0.	153.9	45.0	241.5	2.938E-05	4.415E-05	2.938E-05
E	1.2	0.95	3218.	0.	0.	153.9	45.0	241.5	2.350E-05	3.532E-05	2.350E-05
E	1.5	1.83	3218.	0.	0.	153.9	45.0	241.5	1.958E-05	2.943E-05	1.958E-05
E	2.0	4.83	3218.	0.	0.	153.9	45.0	241.5	1.472E-05	2.213E-05	1.472E-05
E	3.0	10.04	3218.	0.	0.	153.9	45.0	198.1	1.195E-05	1.474E-05	1.195E-05
E	4.0	4.92	3218.	0.	0.	153.9	45.0	176.1	1.008E-05	1.105E-05	1.008E-05
E	5.0	1.56	3218.	0.	0.	153.9	45.0	162.9	8.722E-06	8.846E-06	8.722E-06
E	6.0	0.34	3218.	0.	0.	153.9	45.0	154.1	7.682E-06	7.370E-06	7.370E-06
E	8.0	0.29	3218.	0.	0.	153.9	45.0	153.9	5.768E-06	5.525E-06	5.525E-06
E	10.0	0.02	3218.	0.	0.	153.9	45.0	153.9	4.615E-06	4.421E-06	4.421E-06
F	0.4	0.17	3218.	0.	0.	106.2	28.6	196.9	1.365E-04	2.299E-04	1.365E-04
F	0.5	0.07	3218.	0.	0.	106.2	28.6	196.9	1.133E-04	1.909E-04	1.133E-04
F	0.7	0.38	3218.	0.	0.	106.2	28.6	196.9	7.554E-05	1.273E-04	7.554E-05
F	1.0	0.77	3218.	0.	0.	106.2	28.6	196.9	5.665E-05	9.545E-05	5.665E-05
F	1.2	0.90	3218.	0.	0.	106.2	28.6	196.9	4.532E-05	7.636E-05	4.532E-05
F	1.5	1.83	3218.	0.	0.	106.2	28.6	196.9	3.777E-05	6.363E-05	3.777E-05
F	2.0	4.79	3218.	0.	0.	106.2	28.6	196.9	2.839E-05	4.783E-05	2.839E-05
F	3.0	7.15	3218.	0.	0.	106.2	28.6	148.9	2.500E-05	3.186E-05	2.500E-05
F	4.0	0.72	3218.	0.	0.	106.2	28.6	126.7	2.203E-05	2.389E-05	2.203E-05
F	5.0	0.09	3218.	0.	0.	106.2	28.6	114.3	1.955E-05	1.912E-05	1.912E-05
F	6.0	0.02	3218.	0.	0.	106.2	28.6	106.4	1.749E-05	1.593E-05	1.593E-05
G	0.4	0.99	3218.	0.	0.	73.3	18.2	177.6	2.378E-04	4.692E-04	2.378E-04
G	0.5	0.32	3218.	0.	0.	73.3	18.2	177.6	1.975E-04	3.896E-04	1.975E-04
G	0.7	1.56	3218.	0.	0.	73.3	18.2	177.6	1.317E-04	2.597E-04	1.317E-04
G	1.0	4.22	3218.	0.	0.	73.3	18.2	177.6	9.875E-05	1.948E-04	9.875E-05
G	1.2	3.88	3218.	0.	0.	73.3	18.2	177.6	7.900E-05	1.558E-04	7.900E-05
G	1.5	6.41	3218.	0.	0.	73.3	18.2	177.6	6.583E-05	1.299E-04	6.583E-05
G	2.0	11.13	3218.	0.	0.	73.3	18.2	177.6	4.948E-05	9.762E-05	4.948E-05
G	3.0	4.88	3218.	0.	0.	73.3	18.2	117.6	4.979E-05	6.503E-05	4.979E-05
G	4.0	0.05	3218.	0.	0.	73.3	18.2	93.2	4.711E-05	4.876E-05	4.711E-05
G	6.0	0.02	3218.	0.	0.	73.3	18.2	73.5	3.983E-05	3.252E-05	3.252E-05
G	8.0	0.05	3218.	0.	0.	73.3	18.2	73.3	2.994E-05	2.438E-05	2.438E-05



USNRC COMPUTER CODE-PAVAN, VERSION 2.0

RUN DATE: 03/07/07

PLANT NAME: Oyster Creek

METEOROLOGICAL INSTRUMENTATION

DATA PERIOD:

WIND SENSORS HEIGHT: Ground

TYPE OF RELEASE: Ground Release

DELTA-T HEIGHTS: 10.1-45.7 meters

SOURCE OF DATA:

COMMENTS: Oyster Creek, Ground Release, 1995-1999 met data

PROGRAM: PAVAN, 10/76, 8/79 REVISION, IMPLEMENTATION OF REGULATORY GUIDE 1.145

LOW POPULATION ZONE CALCULATIONS:

ENE SECTOR BOUNDARY DISTANCE = 3218.0 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= 1913. D= 44.8

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.

2.378E-04	1.975E-04	1.365E-04	1.317E-04	1.133E-04	9.875E-05	7.900E-05	7.554E-05	7.076E-05	6.583E-05
0.994	1.310	1.484	3.042	3.109	7.330	11.212	11.596	11.696	18.106
0.10430	0.13746	0.15579	0.31924	0.32634	0.76931	1.17675	1.21702	1.22746	1.90020
5.875E-05	5.665E-05	4.979E-05	4.948E-05	4.711E-05	4.532E-05	4.040E-05	3.917E-05	3.777E-05	3.355E-05
18.196	18.963	23.839	34.966	35.011	35.914	35.942	36.281	38.109	38.154
1.90968	1.99022	2.50189	3.66972	3.67445	3.76921	3.77219	3.80772	3.99960	4.00433
3.252E-05	2.938E-05	2.839E-05	2.500E-05	2.438E-05	2.350E-05	2.237E-05	2.203E-05	1.958E-05	1.912E-05
38.177	38.967	43.752	50.907	50.952	51.900	52.013	52.735	54.563	54.654
4.00670	4.08961	4.59180	5.34272	5.34746	5.44695	5.45879	5.53460	5.72647	5.73595
1.677E-05	1.593E-05	1.472E-05	1.342E-05	1.195E-05	1.118E-05	1.008E-05	8.722E-06	8.406E-06	7.370E-06
54.902	54.924	59.755	60.026	70.070	70.589	75.509	77.066	78.127	78.466
5.76200	5.76437	6.27130	6.29973	7.35385	7.40834	7.92474	8.08819	8.19953	8.23506
6.218E-06	5.525E-06	4.977E-06	4.655E-06	4.421E-06	4.170E-06	3.879E-06	3.524E-06	2.916E-06	2.642E-06
81.197	81.490	84.221	84.289	84.312	85.959	85.982	86.772	86.907	87.449
8.52169	8.55248	8.83911	8.84622	8.84858	9.02151	9.02388	9.10678	9.12100	9.17785
2.114E-06	1.942E-06	1.601E-06	1.456E-06	1.425E-06	1.334E-06	1.166E-06	1.003E-06	9.711E-07	7.890E-07
87.494	87.923	87.946	88.329	88.331	88.466	88.760	88.985	89.076	89.098
9.18259	9.22760	9.22996	9.27023	9.27040	9.28461	9.31541	9.33909	9.34857	9.35094
7.281E-07	6.682E-07	5.826E-07	5.010E-07	4.734E-07	4.011E-07	3.945E-07	3.341E-07	2.965E-07	2.505E-07
89.166	90.182	90.204	91.175	91.220	91.897	91.987	92.236	92.619	92.913
9.35804	9.46464	9.46701	9.56887	9.57361	9.64467	9.65415	9.68020	9.72048	9.75127
1.975E-07	1.481E-07	1.186E-07	9.877E-08	7.405E-08	5.926E-08				
94.267	96.344	98.239	99.345	99.932	100.000				
9.89340	10.11133	10.31031	10.42638	10.48797	10.49508				

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)= 1.898  
 HANDCHECK GRAPH: SLOPE LT -1.0 FOR LOW PERCENTAGES. XSAVE ( 3)= 3.666  
 HANDCHECK GRAPH: SLOPE LT -1.0 FOR LOW PERCENTAGES. XSAVE ( 4)= 4.588  
 HANDCHECK GRAPH: SLOPE LT -1.0 FOR LOW PERCENTAGES. XSAVE ( 5)= 5.339  
 HANDCHECK GRAPH: SLOPE LT -1.0 FOR LOW PERCENTAGES. XSAVE ( 6)= 5.443  
 HANDCHECK GRAPH: SLOPE LT -1.0 FOR LOW PERCENTAGES. XSAVE ( 7)= 7.350  
 HANDCHECK GRAPH: SLOPE LT -1.0 FOR LOW PERCENTAGES. XSAVE ( 8)= 7.921  
 HANDCHECK GRAPH: SLOPE LT -1.0 FOR LOW PERCENTAGES. XSAVE ( 9)= 8.196  
 HANDCHECK GRAPH: SLOPE LT -1.0 FOR LOW PERCENTAGES. XSAVE (10)= 8.836

K	I	XQSAVE(K, I)	XQINT(K, I)	XQSLOP(K, I)
12	1	-8.34389	-12.28675	-1.28098
12	2	-9.62841	-11.71071	-1.00340
12	3	-9.91385	-19.42592	-5.31171
12	4	-10.46950	-13.39334	-1.73401
12	5	-10.59665	-21.07391	-6.49615
12	6	-10.65847	-17.73908	-4.41621
12	7	-11.33466	-17.53559	-4.27589
12	8	-11.50485	-25.44567	-9.88426
12	9	-11.68659	-29.44876	-12.76001
12	10	-12.21064	NUMXQ(K)= 10	
		2.373E-04	0.105	1.000
		1.527E-04	0.315	3.000
		1.224E-04	0.525	5.000
		8.877E-05	1.050	10.000
		7.257E-05	1.574	15.000
		6.317E-05	2.099	20.000
		5.746E-05	2.624	25.000
		5.303E-05	3.149	30.000
		4.937E-05	3.673	35.000
		3.556E-05	4.198	40.000
		2.773E-05	4.723	45.000
		2.539E-05	5.248	50.000
		2.069E-05	5.772	55.000
		1.705E-05	6.297	60.000
		1.422E-05	6.822	65.000
		1.198E-05	7.347	70.000
		1.024E-05	7.871	75.000
		7.133E-06	8.396	80.000
		1.251E-04	0.5	4.76

ANNUAL AVERAGE = 1.19E-06

K= 12 FIVEXQ(K)= 1.251E-04 FIVEPR(K)= 4.764

USNRC COMPUTER CODE-PAVAN, VERSION 2.0

RUN DATE: 03/07/07

PLANT NAME: Oyster Creek

METEOROLOGICAL INSTRUMENTATION

DATA PERIOD:

WIND SENSORS HEIGHT: Ground

TYPE OF RELEASE: Ground Release

DELTA-T HEIGHTS: 10.1-45.7 meters

SOURCE OF DATA:

COMMENTS: Oyster Creek, Ground Release, 1995-1999 met data

PROGRAM: PAVAN, 10/76, 8/79 REVISION, IMPLEMENTATION OF REGULATORY GUIDE 1.145

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

CLASS	METER/SEC	PERCENT	METERS	METERS	METERS	SIGMA-Y	SIGMA-Z	MEANDER-SY	** CHI/Q VALUES (SEC/CUBIC METER)		
									MEANDER	BLDG WAKE	USED
AT 10.0 METERS									CA= 957.SQ.METERS		
A	0.4	0.00	3218.	0.	0.	538.2	1000.0	538.2	1.426E-06	1.425E-06	1.425E-06
A	0.5	0.02	3218.	0.	0.	538.2	1000.0	538.2	1.184E-06	1.184E-06	1.184E-06
A	1.2	0.04	3218.	0.	0.	538.2	1000.0	538.2	4.737E-07	4.734E-07	4.734E-07
A	1.5	0.18	3218.	0.	0.	538.2	1000.0	538.2	3.947E-07	3.945E-07	3.945E-07
A	2.0	0.44	3218.	0.	0.	538.2	1000.0	538.2	2.967E-07	2.965E-07	2.965E-07
A	3.0	1.28	3218.	0.	0.	538.2	1000.0	538.2	1.977E-07	1.975E-07	1.975E-07
A	4.0	2.44	3218.	0.	0.	538.2	1000.0	538.2	1.482E-07	1.481E-07	1.481E-07
A	5.0	2.93	3218.	0.	0.	538.2	1000.0	538.2	1.186E-07	1.186E-07	1.186E-07
A	6.0	1.87	3218.	0.	0.	538.2	1000.0	538.2	9.883E-08	9.877E-08	9.877E-08
A	8.0	1.59	3218.	0.	0.	538.2	1000.0	538.2	7.409E-08	7.405E-08	7.405E-08
A	10.0	0.35	3218.	0.	0.	538.2	1000.0	538.2	5.929E-08	5.926E-08	5.926E-08
B	1.0	0.02	3218.	0.	0.	404.8	392.6	404.8	2.006E-06	2.002E-06	2.002E-06
B	1.2	0.02	3218.	0.	0.	404.8	392.6	404.8	1.604E-06	1.601E-06	1.601E-06
B	1.5	0.04	3218.	0.	0.	404.8	392.6	404.8	1.337E-06	1.334E-06	1.334E-06
B	2.0	0.35	3218.	0.	0.	404.8	392.6	404.8	1.005E-06	1.003E-06	1.003E-06
B	3.0	0.64	3218.	0.	0.	404.8	392.6	404.8	6.695E-07	6.682E-07	6.682E-07
B	4.0	1.21	3218.	0.	0.	404.8	392.6	404.8	5.019E-07	5.010E-07	5.010E-07
B	5.0	0.95	3218.	0.	0.	404.8	392.6	404.8	4.018E-07	4.011E-07	4.011E-07
B	6.0	0.46	3218.	0.	0.	404.8	392.6	404.8	3.348E-07	3.341E-07	3.341E-07
B	8.0	0.29	3218.	0.	0.	404.8	392.6	404.8	2.510E-07	2.505E-07	2.505E-07
B	10.0	0.09	3218.	0.	0.	404.8	392.6	404.8	2.008E-07	2.004E-07	2.004E-07
C	1.0	0.02	3218.	0.	0.	307.4	177.2	307.4	5.851E-06	5.818E-06	5.818E-06
C	1.5	0.04	3218.	0.	0.	307.4	177.2	307.4	3.900E-06	3.879E-06	3.879E-06
C	2.0	0.22	3218.	0.	0.	307.4	177.2	307.4	2.932E-06	2.916E-06	2.916E-06
C	3.0	0.62	3218.	0.	0.	307.4	177.2	307.4	1.953E-06	1.942E-06	1.942E-06
C	4.0	0.42	3218.	0.	0.	307.4	177.2	307.4	1.464E-06	1.456E-06	1.456E-06
C	5.0	0.35	3218.	0.	0.	307.4	177.2	307.4	1.172E-06	1.166E-06	1.166E-06
C	6.0	0.20	3218.	0.	0.	307.4	177.2	307.4	9.766E-07	9.711E-07	9.711E-07
C	8.0	0.33	3218.	0.	0.	307.4	177.2	307.4	7.322E-07	7.281E-07	7.281E-07
C	10.0	0.02	3218.	0.	0.	307.4	177.2	307.4	5.859E-07	5.826E-07	5.826E-07
D	0.4	0.04	3218.	0.	0.	216.4	68.3	278.0	4.040E-05	5.085E-05	4.040E-05
D	0.5	0.02	3218.	0.	0.	216.4	68.3	278.0	3.355E-05	4.222E-05	3.355E-05
D	0.7	0.11	3218.	0.	0.	216.4	68.3	278.0	2.237E-05	2.815E-05	2.237E-05
D	1.0	0.24	3218.	0.	0.	216.4	68.3	278.0	1.677E-05	2.111E-05	1.677E-05
D	1.2	0.46	3218.	0.	0.	216.4	68.3	278.0	1.342E-05	1.689E-05	1.342E-05
D	1.5	0.77	3218.	0.	0.	216.4	68.3	278.0	1.118E-05	1.407E-05	1.118E-05
D	2.0	1.25	3218.	0.	0.	216.4	68.3	278.0	8.406E-06	1.058E-05	8.406E-06
D	3.0	2.93	3218.	0.	0.	216.4	68.3	250.4	6.218E-06	7.048E-06	6.218E-06
D	4.0	3.19	3218.	0.	0.	216.4	68.3	234.5	4.977E-06	5.284E-06	4.977E-06
D	5.0	2.11	3218.	0.	0.	216.4	68.3	224.1	4.170E-06	4.230E-06	4.170E-06

D	6.0	1.19	3218.	0.	0.	216.4	68.3	216.5	3.595E-06	3.524E-06	3.524E-06
D	8.0	0.99	3218.	0.	0.	216.4	68.3	216.4	2.696E-06	2.642E-06	2.642E-06
D	10.0	0.13	3218.	0.	0.	216.4	68.3	216.4	2.158E-06	2.114E-06	2.114E-06
D	24.5	0.02	3218.	0.	0.	216.4	68.3	216.4	8.775E-07	8.598E-07	8.598E-07
E	0.4	0.10	3218.	0.	0.	153.9	45.0	241.5	7.076E-05	1.063E-04	7.076E-05
E	0.5	0.04	3218.	0.	0.	153.9	45.0	241.5	5.875E-05	8.830E-05	5.875E-05
E	0.7	0.31	3218.	0.	0.	153.9	45.0	241.5	3.917E-05	5.887E-05	3.917E-05
E	1.0	0.86	3218.	0.	0.	153.9	45.0	241.5	2.938E-05	4.415E-05	2.938E-05
E	1.2	0.92	3218.	0.	0.	153.9	45.0	241.5	2.350E-05	3.532E-05	2.350E-05
E	1.5	1.45	3218.	0.	0.	153.9	45.0	241.5	1.958E-05	2.943E-05	1.958E-05
E	2.0	2.95	3218.	0.	0.	153.9	45.0	241.5	1.472E-05	2.213E-05	1.472E-05
E	3.0	8.67	3218.	0.	0.	153.9	45.0	198.1	1.195E-05	1.474E-05	1.195E-05
E	4.0	4.60	3218.	0.	0.	153.9	45.0	176.1	1.008E-05	1.105E-05	1.008E-05
E	5.0	2.47	3218.	0.	0.	153.9	45.0	162.9	8.722E-06	8.846E-06	8.722E-06
E	6.0	0.75	3218.	0.	0.	153.9	45.0	154.1	7.682E-06	7.370E-06	7.370E-06
E	8.0	0.64	3218.	0.	0.	153.9	45.0	153.9	5.768E-06	5.525E-06	5.525E-06
E	10.0	0.07	3218.	0.	0.	153.9	45.0	153.9	4.615E-06	4.421E-06	4.421E-06
F	0.4	0.23	3218.	0.	0.	106.2	28.6	196.9	1.365E-04	2.299E-04	1.365E-04
F	0.5	0.04	3218.	0.	0.	106.2	28.6	196.9	1.133E-04	1.909E-04	1.133E-04
F	0.7	0.44	3218.	0.	0.	106.2	28.6	196.9	7.554E-05	1.273E-04	7.554E-05
F	1.0	1.14	3218.	0.	0.	106.2	28.6	196.9	5.665E-05	9.545E-05	5.665E-05
F	1.2	1.17	3218.	0.	0.	106.2	28.6	196.9	4.532E-05	7.636E-05	4.532E-05
F	1.5	2.07	3218.	0.	0.	106.2	28.6	196.9	3.777E-05	6.363E-05	3.777E-05
F	2.0	3.46	3218.	0.	0.	106.2	28.6	196.9	2.839E-05	4.783E-05	2.839E-05
F	3.0	4.89	3218.	0.	0.	106.2	28.6	148.9	2.500E-05	3.186E-05	2.500E-05
F	4.0	0.68	3218.	0.	0.	106.2	28.6	126.7	2.203E-05	2.389E-05	2.203E-05
F	5.0	0.15	3218.	0.	0.	106.2	28.6	114.3	1.955E-05	1.912E-05	1.912E-05
F	6.0	0.07	3218.	0.	0.	106.2	28.6	106.4	1.749E-05	1.593E-05	1.593E-05
F	8.0	0.07	3218.	0.	0.	106.2	28.6	106.2	1.314E-05	1.194E-05	1.194E-05
G	0.4	1.18	3218.	0.	0.	73.3	18.2	177.6	2.378E-04	4.692E-04	2.378E-04
G	0.5	0.70	3218.	0.	0.	73.3	18.2	177.6	1.975E-04	3.896E-04	1.975E-04
G	0.7	2.51	3218.	0.	0.	73.3	18.2	177.6	1.317E-04	2.597E-04	1.317E-04
G	1.0	3.92	3218.	0.	0.	73.3	18.2	177.6	9.875E-05	1.948E-04	9.875E-05
G	1.2	4.69	3218.	0.	0.	73.3	18.2	177.6	7.900E-05	1.558E-04	7.900E-05
G	1.5	6.98	3218.	0.	0.	73.3	18.2	177.6	6.583E-05	1.299E-04	6.583E-05
G	2.0	8.08	3218.	0.	0.	73.3	18.2	177.6	4.948E-05	9.762E-05	4.948E-05
G	3.0	2.64	3218.	0.	0.	73.3	18.2	117.6	4.979E-05	6.503E-05	4.979E-05
G	4.0	0.02	3218.	0.	0.	73.3	18.2	93.2	4.711E-05	4.876E-05	4.711E-05
G	5.0	0.07	3218.	0.	0.	73.3	18.2	80.8	4.350E-05	3.903E-05	3.903E-05
G	6.0	0.04	3218.	0.	0.	73.3	18.2	73.5	3.983E-05	3.252E-05	3.252E-05
G	8.0	0.02	3218.	0.	0.	73.3	18.2	73.3	2.994E-05	2.438E-05	2.438E-05



10.75935

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)= 3.515  
 HANDCHECK GRAPH: SLOPE LT -1.0 FOR LOW PERCENTAGES. XSAVE ( 4)= 3.643  
 HANDCHECK GRAPH: SLOPE LT -1.0 FOR LOW PERCENTAGES. XSAVE ( 5)= 4.907  
 HANDCHECK GRAPH: SLOPE LT -1.0 FOR LOW PERCENTAGES. XSAVE ( 6)= 5.009  
 HANDCHECK GRAPH: SLOPE LT -1.0 FOR LOW PERCENTAGES. XSAVE ( 7)= 6.600  
 HANDCHECK GRAPH: SLOPE LT -1.0 FOR LOW PERCENTAGES. XSAVE ( 8)= 6.608  
 HANDCHECK GRAPH: SLOPE LT -1.0 FOR LOW PERCENTAGES. XSAVE ( 9)= 7.186  
 HANDCHECK GRAPH: SLOPE LT -1.0 FOR LOW PERCENTAGES. XSAVE (10)= 7.586  
 HANDCHECK GRAPH: SLOPE LT -1.0 FOR LOW PERCENTAGES. XSAVE (11)= 8.396

K	I	XQSAVE (K, I)	XQINT (K, I)	XQSLOP (K, I)
13	1	-8.34389	-12.17643	-1.26925
13	2	-9.62841	-12.52842	-1.44459
13	3	-9.91385	-19.70439	-5.40941
13	4	-10.00173	-17.63938	-4.25813
13	5	-10.59665	-20.88294	-6.21923
13	6	-10.65847	-18.72699	-4.90783
13	7	-11.33466	-12.85516	-1.00947
13	8	-11.33522	-17.19794	-3.89374
13	9	-11.50485	-20.78859	-6.34954
13	10	-11.68659	-25.44909	-9.60070
13	11	-12.21064	NUMXQ (K) = 11	

BACK EXTRAPOLATION FOR 1 PERCENTILE.

2.532E-04	0.108	1.000
1.635E-04	0.323	3.000
1.312E-04	0.538	5.000
9.533E-05	1.076	10.000
7.803E-05	1.614	15.000
6.721E-05	2.152	20.000
5.876E-05	2.690	25.000
5.234E-05	3.228	30.000
4.257E-05	3.766	35.000
3.268E-05	4.304	40.000
2.574E-05	4.842	45.000
1.983E-05	5.380	50.000
1.572E-05	5.918	55.000
1.266E-05	6.456	60.000
1.066E-05	6.994	65.000
8.627E-06	7.532	70.000
6.133E-06	8.070	75.000
1.355E-04	0.5	4.65

ANNUAL AVERAGE = 1.24E-06

K= 13      FIVEXQ(K)= 1.355E-04      FIVEPR(K)= 4.647

USNRC COMPUTER CODE-PAVAN, VERSION 2.0

RUN DATE: 03/07/07

PLANT NAME: Oyster Creek

METEOROLOGICAL INSTRUMENTATION

DATA PERIOD:

WIND SENSORS HEIGHT: Ground

TYPE OF RELEASE: Ground Release

DELTA-T HEIGHTS: 10.1-45.7 meters

SOURCE OF DATA:

COMMENTS: Oyster Creek, Ground Release, 1995-1999 met data

PROGRAM: PAVAN, 10/76, 8/79 REVISION, IMPLEMENTATION OF REGULATORY GUIDE 1.145

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

CLASS	METER/SEC AT 10.0 METERS	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	USED
CA= 957.SQ.METERS											
A	0.4	0.00	3218.	0.	0.	538.2	1000.0	538.2	1.426E-06	1.425E-06	1.425E-06
A	1.0	0.06	3218.	0.	0.	538.2	1000.0	538.2	5.921E-07	5.918E-07	5.918E-07
A	1.2	0.13	3218.	0.	0.	538.2	1000.0	538.2	4.737E-07	4.734E-07	4.734E-07
A	1.5	0.19	3218.	0.	0.	538.2	1000.0	538.2	3.947E-07	3.945E-07	3.945E-07
A	2.0	0.45	3218.	0.	0.	538.2	1000.0	538.2	2.967E-07	2.965E-07	2.965E-07
A	3.0	1.53	3218.	0.	0.	538.2	1000.0	538.2	1.977E-07	1.975E-07	1.975E-07
A	4.0	2.72	3218.	0.	0.	538.2	1000.0	538.2	1.482E-07	1.481E-07	1.481E-07
A	5.0	3.87	3218.	0.	0.	538.2	1000.0	538.2	1.186E-07	1.186E-07	1.186E-07
A	6.0	4.75	3218.	0.	0.	538.2	1000.0	538.2	9.883E-08	9.877E-08	9.877E-08
A	8.0	3.56	3218.	0.	0.	538.2	1000.0	538.2	7.409E-08	7.405E-08	7.405E-08
A	10.0	0.37	3218.	0.	0.	538.2	1000.0	538.2	5.929E-08	5.926E-08	5.926E-08
A	24.5	0.13	3218.	0.	0.	538.2	1000.0	538.2	2.411E-08	2.410E-08	2.410E-08
B	1.5	0.04	3218.	0.	0.	404.8	392.6	404.8	1.337E-06	1.334E-06	1.334E-06
B	2.0	0.26	3218.	0.	0.	404.8	392.6	404.8	1.005E-06	1.003E-06	1.003E-06
B	3.0	0.73	3218.	0.	0.	404.8	392.6	404.8	6.695E-07	6.682E-07	6.682E-07
B	4.0	1.36	3218.	0.	0.	404.8	392.6	404.8	5.019E-07	5.010E-07	5.010E-07
B	5.0	0.95	3218.	0.	0.	404.8	392.6	404.8	4.018E-07	4.011E-07	4.011E-07
B	6.0	0.82	3218.	0.	0.	404.8	392.6	404.8	3.348E-07	3.341E-07	3.341E-07
B	8.0	0.97	3218.	0.	0.	404.8	392.6	404.8	2.510E-07	2.505E-07	2.505E-07
B	10.0	0.13	3218.	0.	0.	404.8	392.6	404.8	2.008E-07	2.004E-07	2.004E-07
B	24.5	0.06	3218.	0.	0.	404.8	392.6	404.8	8.168E-08	8.152E-08	8.152E-08
C	1.0	0.02	3218.	0.	0.	307.4	177.2	307.4	5.851E-06	5.818E-06	5.818E-06
C	1.5	0.09	3218.	0.	0.	307.4	177.2	307.4	3.900E-06	3.879E-06	3.879E-06
C	2.0	0.15	3218.	0.	0.	307.4	177.2	307.4	2.932E-06	2.916E-06	2.916E-06
C	3.0	0.45	3218.	0.	0.	307.4	177.2	307.4	1.953E-06	1.942E-06	1.942E-06
C	4.0	0.56	3218.	0.	0.	307.4	177.2	307.4	1.464E-06	1.456E-06	1.456E-06
C	5.0	0.43	3218.	0.	0.	307.4	177.2	307.4	1.172E-06	1.166E-06	1.166E-06
C	6.0	0.45	3218.	0.	0.	307.4	177.2	307.4	9.766E-07	9.711E-07	9.711E-07
C	8.0	0.43	3218.	0.	0.	307.4	177.2	307.4	7.322E-07	7.281E-07	7.281E-07
C	10.0	0.11	3218.	0.	0.	307.4	177.2	307.4	5.859E-07	5.826E-07	5.826E-07
D	0.4	0.04	3218.	0.	0.	216.4	68.3	278.0	4.040E-05	5.085E-05	4.040E-05
D	0.7	0.19	3218.	0.	0.	216.4	68.3	278.0	2.237E-05	2.815E-05	2.237E-05
D	1.0	0.17	3218.	0.	0.	216.4	68.3	278.0	1.677E-05	2.111E-05	1.677E-05
D	1.2	0.48	3218.	0.	0.	216.4	68.3	278.0	1.342E-05	1.689E-05	1.342E-05
D	1.5	0.84	3218.	0.	0.	216.4	68.3	278.0	1.118E-05	1.407E-05	1.118E-05
D	2.0	1.10	3218.	0.	0.	216.4	68.3	278.0	8.406E-06	1.058E-05	8.406E-06
D	3.0	3.22	3218.	0.	0.	216.4	68.3	250.4	6.218E-06	7.048E-06	6.218E-06
D	4.0	3.48	3218.	0.	0.	216.4	68.3	234.5	4.977E-06	5.284E-06	4.977E-06
D	5.0	2.92	3218.	0.	0.	216.4	68.3	224.1	4.170E-06	4.230E-06	4.170E-06
D	6.0	2.38	3218.	0.	0.	216.4	68.3	216.5	3.595E-06	3.524E-06	3.524E-06



D	8.0	2.09	3218.	0.	0.	216.4	68.3	216.4	2.696E-06	2.642E-06	2.642E-06
D	10.0	0.37	3218.	0.	0.	216.4	68.3	216.4	2.158E-06	2.114E-06	2.114E-06
D	24.5	0.02	3218.	0.	0.	216.4	68.3	216.4	8.775E-07	8.598E-07	8.598E-07
E	0.4	0.09	3218.	0.	0.	153.9	45.0	241.5	7.076E-05	1.063E-04	7.076E-05
E	0.5	0.13	3218.	0.	0.	153.9	45.0	241.5	5.875E-05	8.830E-05	5.875E-05
E	0.7	0.28	3218.	0.	0.	153.9	45.0	241.5	3.917E-05	5.887E-05	3.917E-05
E	1.0	0.71	3218.	0.	0.	153.9	45.0	241.5	2.938E-05	4.415E-05	2.938E-05
E	1.2	0.86	3218.	0.	0.	153.9	45.0	241.5	2.350E-05	3.532E-05	2.350E-05
E	1.5	1.21	3218.	0.	0.	153.9	45.0	241.5	1.958E-05	2.943E-05	1.958E-05
E	2.0	3.20	3218.	0.	0.	153.9	45.0	241.5	1.472E-05	2.213E-05	1.472E-05
E	3.0	8.21	3218.	0.	0.	153.9	45.0	198.1	1.195E-05	1.474E-05	1.195E-05
E	4.0	6.22	3218.	0.	0.	153.9	45.0	176.1	1.008E-05	1.105E-05	1.008E-05
E	5.0	4.47	3218.	0.	0.	153.9	45.0	162.9	8.722E-06	8.846E-06	8.722E-06
E	6.0	2.63	3218.	0.	0.	153.9	45.0	154.1	7.682E-06	7.370E-06	7.370E-06
E	8.0	1.34	3218.	0.	0.	153.9	45.0	153.9	5.768E-06	5.525E-06	5.525E-06
E	10.0	0.24	3218.	0.	0.	153.9	45.0	153.9	4.615E-06	4.421E-06	4.421E-06
F	0.4	0.18	3218.	0.	0.	106.2	28.6	196.9	1.365E-04	2.299E-04	1.365E-04
F	0.5	0.09	3218.	0.	0.	106.2	28.6	196.9	1.133E-04	1.909E-04	1.133E-04
F	0.7	0.37	3218.	0.	0.	106.2	28.6	196.9	7.554E-05	1.273E-04	7.554E-05
F	1.0	0.86	3218.	0.	0.	106.2	28.6	196.9	5.665E-05	9.545E-05	5.665E-05
F	1.2	0.89	3218.	0.	0.	106.2	28.6	196.9	4.532E-05	7.636E-05	4.532E-05
F	1.5	1.21	3218.	0.	0.	106.2	28.6	196.9	3.777E-05	6.363E-05	3.777E-05
F	2.0	3.13	3218.	0.	0.	106.2	28.6	196.9	2.839E-05	4.783E-05	2.839E-05
F	3.0	3.69	3218.	0.	0.	106.2	28.6	148.9	2.500E-05	3.186E-05	2.500E-05
F	4.0	0.54	3218.	0.	0.	106.2	28.6	126.7	2.203E-05	2.389E-05	2.203E-05
F	5.0	0.22	3218.	0.	0.	106.2	28.6	114.3	1.955E-05	1.912E-05	1.912E-05
F	6.0	0.09	3218.	0.	0.	106.2	28.6	106.4	1.749E-05	1.593E-05	1.593E-05
F	8.0	0.13	3218.	0.	0.	106.2	28.6	106.2	1.314E-05	1.194E-05	1.194E-05
G	0.4	0.82	3218.	0.	0.	73.3	18.2	177.6	2.378E-04	4.692E-04	2.378E-04
G	0.5	0.50	3218.	0.	0.	73.3	18.2	177.6	1.975E-04	3.896E-04	1.975E-04
G	0.7	2.07	3218.	0.	0.	73.3	18.2	177.6	1.317E-04	2.597E-04	1.317E-04
G	1.0	2.96	3218.	0.	0.	73.3	18.2	177.6	9.875E-05	1.948E-04	9.875E-05
G	1.2	2.66	3218.	0.	0.	73.3	18.2	177.6	7.900E-05	1.558E-04	7.900E-05
G	1.5	3.15	3218.	0.	0.	73.3	18.2	177.6	6.583E-05	1.299E-04	6.583E-05
G	2.0	2.57	3218.	0.	0.	73.3	18.2	177.6	4.948E-05	9.762E-05	4.948E-05
G	3.0	0.95	3218.	0.	0.	73.3	18.2	117.6	4.979E-05	6.503E-05	4.979E-05
G	4.0	0.09	3218.	0.	0.	73.3	18.2	93.2	4.711E-05	4.876E-05	4.711E-05
G	5.0	0.06	3218.	0.	0.	73.3	18.2	80.8	4.350E-05	3.903E-05	3.903E-05
G	6.0	0.09	3218.	0.	0.	73.3	18.2	73.5	3.983E-05	3.252E-05	3.252E-05

USNRC COMPUTER CODE-PAVAN, VERSION 2.0

RUN DATE: 03/07/07

PLANT NAME: Oyster Creek

METEOROLOGICAL INSTRUMENTATION

DATA PERIOD:

WIND SENSORS HEIGHT: Ground

TYPE OF RELEASE: Ground Release

DELTA-T HEIGHTS: 10.1-45.7 meters

SOURCE OF DATA:

COMMENTS: Oyster Creek, Ground Release, 1995-1999 met data

PROGRAM: PAVAN, 10/76, 8/79 REVISION, IMPLEMENTATION OF REGULATORY GUIDE 1.145

LOW POPULATION ZONE CALCULATIONS:

ESE SECTOR BOUNDARY DISTANCE = 3218.0 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= 1913. D= 44.8

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.

2.378E-04	1.975E-04	1.365E-04	1.317E-04	1.133E-04	9.875E-05	7.900E-05	7.554E-05	7.076E-05	6.583E-05
0.815	1.312	1.493	3.567	3.653	6.612	9.268	9.636	9.727	12.880
0.08943	0.14391	0.16380	0.39121	0.40068	0.72521	1.01658	1.05685	1.06685	1.41270
5.875E-05	5.665E-05	4.979E-05	4.948E-05	4.711E-05	4.532E-05	4.040E-05	3.917E-05	3.903E-05	3.777E-05
13.010	13.873	14.824	17.394	17.480	18.366	18.401	18.682	18.747	19.956
1.42691	1.52166	1.62589	1.90778	1.91726	2.01438	2.01825	2.04905	2.05616	2.18881
3.252E-05	2.938E-05	2.839E-05	2.500E-05	2.350E-05	2.237E-05	2.203E-05	1.958E-05	1.912E-05	1.677E-05
20.042	20.755	23.887	27.580	28.444	28.638	29.178	30.387	30.603	30.776
2.19828	2.27646	2.61994	3.02500	3.11976	3.14108	3.20030	3.33295	3.35664	3.37559
1.593E-05	1.472E-05	1.342E-05	1.195E-05	1.194E-05	1.118E-05	1.008E-05	8.722E-06	8.406E-06	7.370E-06
30.863	34.059	34.534	42.741	42.871	43.713	49.933	54.404	55.505	58.140
3.38507	3.73565	3.78777	4.68792	4.70213	4.79452	5.47674	5.96709	6.08790	6.37689
6.218E-06	5.818E-06	5.525E-06	4.977E-06	4.421E-06	4.170E-06	3.879E-06	3.524E-06	2.916E-06	2.642E-06
61.358	61.380	62.719	66.196	66.433	69.349	69.435	71.811	71.962	74.057
6.72985	6.73222	6.87909	7.26047	7.28652	7.60632	7.61579	7.87636	7.89294	8.12272
2.114E-06	1.942E-06	1.456E-06	1.425E-06	1.334E-06	1.166E-06	1.003E-06	9.711E-07	8.598E-07	7.281E-07
74.424	74.878	75.439	75.444	75.487	75.919	76.178	76.632	76.653	77.085
8.16299	8.21274	8.27433	8.27482	8.27956	8.32694	8.35536	8.40511	8.40748	8.45485
6.682E-07	5.918E-07	5.826E-07	5.010E-07	4.734E-07	4.011E-07	3.945E-07	3.341E-07	2.965E-07	2.505E-07
77.820	77.884	77.992	79.353	79.483	80.433	80.627	81.448	81.902	82.873
8.53539	8.54250	8.55434	8.70358	8.71779	8.82202	8.84334	8.93336	8.98310	9.08970
2.004E-07	1.975E-07	1.481E-07	1.186E-07	9.877E-08	8.152E-08	7.405E-08	5.926E-08	2.410E-08	
83.003	84.536	87.258	91.124	95.875	95.940	99.503	99.870	100.000	
9.10391	9.27210	9.57057	9.99459	10.51573	10.52284	10.91369	10.95397	10.96818	

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)= 0.391  
 HANDCHECK GRAPH: SLOPE LT -1.0 FOR LOW PERCENTAGES. XSAVE ( 3)= 0.724  
 HANDCHECK GRAPH: SLOPE LT -1.0 FOR LOW PERCENTAGES. XSAVE ( 4)= 1.411  
 HANDCHECK GRAPH: SLOPE LT -1.0 FOR LOW PERCENTAGES. XSAVE ( 5)= 1.906  
 HANDCHECK GRAPH: SLOPE LT -1.0 FOR LOW PERCENTAGES. XSAVE ( 6)= 2.012  
 HANDCHECK GRAPH: SLOPE LT -1.0 FOR LOW PERCENTAGES. XSAVE ( 7)= 3.022  
 HANDCHECK GRAPH: SLOPE LT -1.0 FOR LOW PERCENTAGES. XSAVE ( 8)= 3.117  
 HANDCHECK GRAPH: SLOPE LT -1.0 FOR LOW PERCENTAGES. XSAVE ( 9)= 4.684  
 HANDCHECK GRAPH: SLOPE LT -1.0 FOR LOW PERCENTAGES. XSAVE (11)= 5.473  
 HANDCHECK GRAPH: SLOPE LT -1.0 FOR LOW PERCENTAGES. XSAVE (12)= 5.963  
 HANDCHECK GRAPH: SLOPE LT -1.0 FOR LOW PERCENTAGES. XSAVE (13)= 6.084  
 HANDCHECK GRAPH: SLOPE LT -1.0 FOR LOW PERCENTAGES. XSAVE (14)= 6.373  
 HANDCHECK GRAPH: SLOPE LT -1.0 FOR LOW PERCENTAGES. XSAVE (15)= 7.257

K	I	XQSAVE (K, I)	XQINT (K, I)	XQSLOP (K, I)
14	1	-8.34389	-12.32840	-1.27564
14	2	-8.93526	-12.49436	-1.33803
14	3	-9.22294	-13.17620	-1.61691
14	4	-9.62841	-14.82327	-2.36756
14	5	-9.91385	-18.05202	-3.92462
14	6	-10.00173	-17.02798	-3.42538
14	7	-10.59665	-19.09661	-4.52716
14	8	-10.65847	-17.37572	-3.60388
14	9	-11.33466	-11.98080	-0.38546
14	10	-11.33522	-15.16478	-2.28655
14	11	-11.50485	-16.92446	-3.38592
14	12	-11.64964	-17.34384	-3.65513
14	13	-11.68659	-20.32777	-5.58303
14	14	-11.81815	-20.71337	-5.83602
14	15	-12.21064	NUMXQ (K) = 15	
		2.202E-04	0.110	1.000
		1.417E-04	0.329	3.000
		1.128E-04	0.548	5.000
		7.710E-05	1.097	10.000
		5.705E-05	1.645	15.000
		4.013E-05	2.194	20.000
		2.897E-05	2.742	25.000
		2.157E-05	3.290	30.000
		1.676E-05	3.839	35.000
		1.339E-05	4.387	40.000
		1.132E-05	4.936	45.000
		1.006E-05	5.484	50.000
		8.549E-06	6.032	55.000
		6.707E-06	6.581	60.000
		5.263E-06	7.129	65.000
		1.177E-04	0.5	4.56

ANNUAL AVERAGE = 9.02E-07

K= 14      FIVEXQ(K)= 1.177E-04      FIVEPR(K)= 4.559

USNRC COMPUTER CODE-PAVAN, VERSION 2.0

RUN DATE: 03/07/07

PLANT NAME: Oyster Creek  
 DATA PERIOD:  
 TYPE OF RELEASE: Ground Release  
 SOURCE OF DATA:  
 COMMENTS: Oyster Creek, Ground Release, 1995-1999 met data  
 PROGRAM: PAVAN, 10/76, 8/79 REVISION, IMPLEMENTATION OF REGULATORY GUIDE 1.145

METEOROLOGICAL INSTRUMENTATION  
 WIND SENSORS HEIGHT: Ground  
 DELTA-T HEIGHTS: 10.1-45.7 meters

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

CLASS	METER/SEC	PERCENT	METERS	METERS	METERS	SIGMA-Y	SIGMA-Z	MEANDER-SY	** CHI/Q VALUES (SEC/CUBIC METER)			
									MEANDER	BLDG WAKE	USED	
									CA= 957.SQ.METERS			
STABILITY WINDSPEED FREQUENCY DISTANCE TERRAIN HT EFF PLUME HT												
AT 10.0 METERS												
A	0.4	0.00	3218.	0.	0.	538.2	1000.0	538.2	1.426E-06	1.425E-06	1.425E-06	
A	1.2	0.05	3218.	0.	0.	538.2	1000.0	538.2	4.737E-07	4.734E-07	4.734E-07	
A	1.5	0.18	3218.	0.	0.	538.2	1000.0	538.2	3.947E-07	3.945E-07	3.945E-07	
A	2.0	0.74	3218.	0.	0.	538.2	1000.0	538.2	2.967E-07	2.965E-07	2.965E-07	
A	3.0	1.53	3218.	0.	0.	538.2	1000.0	538.2	1.977E-07	1.975E-07	1.975E-07	
A	4.0	3.29	3218.	0.	0.	538.2	1000.0	538.2	1.482E-07	1.481E-07	1.481E-07	
A	5.0	4.89	3218.	0.	0.	538.2	1000.0	538.2	1.186E-07	1.186E-07	1.186E-07	
A	6.0	3.67	3218.	0.	0.	538.2	1000.0	538.2	9.883E-08	9.877E-08	9.877E-08	
A	8.0	3.16	3218.	0.	0.	538.2	1000.0	538.2	7.409E-08	7.405E-08	7.405E-08	
A	10.0	0.23	3218.	0.	0.	538.2	1000.0	538.2	5.929E-08	5.926E-08	5.926E-08	
A	24.5	0.07	3218.	0.	0.	538.2	1000.0	538.2	2.411E-08	2.410E-08	2.410E-08	
B	0.7	0.02	3218.	0.	0.	404.8	392.6	404.8	2.674E-06	2.669E-06	2.669E-06	
B	1.2	0.11	3218.	0.	0.	404.8	392.6	404.8	1.604E-06	1.601E-06	1.601E-06	
B	1.5	0.09	3218.	0.	0.	404.8	392.6	404.8	1.337E-06	1.334E-06	1.334E-06	
B	2.0	0.23	3218.	0.	0.	404.8	392.6	404.8	1.005E-06	1.003E-06	1.003E-06	
B	3.0	1.06	3218.	0.	0.	404.8	392.6	404.8	6.695E-07	6.682E-07	6.682E-07	
B	4.0	1.17	3218.	0.	0.	404.8	392.6	404.8	5.019E-07	5.010E-07	5.010E-07	
B	5.0	1.04	3218.	0.	0.	404.8	392.6	404.8	4.018E-07	4.011E-07	4.011E-07	
B	6.0	0.63	3218.	0.	0.	404.8	392.6	404.8	3.348E-07	3.341E-07	3.341E-07	
B	8.0	0.77	3218.	0.	0.	404.8	392.6	404.8	2.510E-07	2.505E-07	2.505E-07	
B	10.0	0.07	3218.	0.	0.	404.8	392.6	404.8	2.008E-07	2.004E-07	2.004E-07	
C	0.7	0.02	3218.	0.	0.	307.4	177.2	307.4	7.801E-06	7.758E-06	7.758E-06	
C	1.2	0.02	3218.	0.	0.	307.4	177.2	307.4	4.681E-06	4.655E-06	4.655E-06	
C	1.5	0.05	3218.	0.	0.	307.4	177.2	307.4	3.900E-06	3.879E-06	3.879E-06	
C	2.0	0.23	3218.	0.	0.	307.4	177.2	307.4	2.932E-06	2.916E-06	2.916E-06	
C	3.0	0.65	3218.	0.	0.	307.4	177.2	307.4	1.953E-06	1.942E-06	1.942E-06	
C	4.0	0.47	3218.	0.	0.	307.4	177.2	307.4	1.464E-06	1.456E-06	1.456E-06	
C	5.0	0.38	3218.	0.	0.	307.4	177.2	307.4	1.172E-06	1.166E-06	1.166E-06	
C	6.0	0.20	3218.	0.	0.	307.4	177.2	307.4	9.766E-07	9.711E-07	9.711E-07	
C	8.0	0.32	3218.	0.	0.	307.4	177.2	307.4	7.322E-07	7.281E-07	7.281E-07	
C	10.0	0.07	3218.	0.	0.	307.4	177.2	307.4	5.859E-07	5.826E-07	5.826E-07	
C	24.5	0.02	3218.	0.	0.	307.4	177.2	307.4	2.383E-07	2.370E-07	2.370E-07	
D	0.4	0.04	3218.	0.	0.	216.4	68.3	278.0	4.040E-05	5.085E-05	4.040E-05	
D	0.5	0.11	3218.	0.	0.	216.4	68.3	278.0	3.355E-05	4.222E-05	3.355E-05	
D	0.7	0.11	3218.	0.	0.	216.4	68.3	278.0	2.237E-05	2.815E-05	2.237E-05	
D	1.0	0.25	3218.	0.	0.	216.4	68.3	278.0	1.677E-05	2.111E-05	1.677E-05	
D	1.2	0.45	3218.	0.	0.	216.4	68.3	278.0	1.342E-05	1.689E-05	1.342E-05	
D	1.5	0.59	3218.	0.	0.	216.4	68.3	278.0	1.118E-05	1.407E-05	1.118E-05	
D	2.0	2.01	3218.	0.	0.	216.4	68.3	278.0	8.406E-06	1.058E-05	8.406E-06	
D	3.0	4.89	3218.	0.	0.	216.4	68.3	250.4	6.218E-06	7.048E-06	6.218E-06	

D	4.0	4.04	3218.	0.	0.	216.4	68.3	234.5	4.977E-06	5.284E-06	4.977E-06
D	5.0	2.80	3218.	0.	0.	216.4	68.3	224.1	4.170E-06	4.230E-06	4.170E-06
D	6.0	2.03	3218.	0.	0.	216.4	68.3	216.5	3.595E-06	3.524E-06	3.524E-06
D	8.0	1.47	3218.	0.	0.	216.4	68.3	216.4	2.696E-06	2.642E-06	2.642E-06
D	10.0	0.23	3218.	0.	0.	216.4	68.3	216.4	2.158E-06	2.114E-06	2.114E-06
E	0.4	0.12	3218.	0.	0.	153.9	45.0	241.5	7.076E-05	1.063E-04	7.076E-05
E	0.5	0.09	3218.	0.	0.	153.9	45.0	241.5	5.875E-05	8.830E-05	5.875E-05
E	0.7	0.38	3218.	0.	0.	153.9	45.0	241.5	3.917E-05	5.887E-05	3.917E-05
E	1.0	1.06	3218.	0.	0.	153.9	45.0	241.5	2.938E-05	4.415E-05	2.938E-05
E	1.2	1.15	3218.	0.	0.	153.9	45.0	241.5	2.350E-05	3.532E-05	2.350E-05
E	1.5	1.74	3218.	0.	0.	153.9	45.0	241.5	1.958E-05	2.943E-05	1.958E-05
E	2.0	3.47	3218.	0.	0.	153.9	45.0	241.5	1.472E-05	2.213E-05	1.472E-05
E	3.0	8.73	3218.	0.	0.	153.9	45.0	198.1	1.195E-05	1.474E-05	1.195E-05
E	4.0	5.39	3218.	0.	0.	153.9	45.0	176.1	1.008E-05	1.105E-05	1.008E-05
E	5.0	3.13	3218.	0.	0.	153.9	45.0	162.9	8.722E-06	8.846E-06	8.722E-06
E	6.0	2.12	3218.	0.	0.	153.9	45.0	154.1	7.682E-06	7.370E-06	7.370E-06
E	8.0	0.83	3218.	0.	0.	153.9	45.0	153.9	5.768E-06	5.525E-06	5.525E-06
E	10.0	0.05	3218.	0.	0.	153.9	45.0	153.9	4.615E-06	4.421E-06	4.421E-06
E	24.5	0.02	3218.	0.	0.	153.9	45.0	153.9	1.877E-06	1.798E-06	1.798E-06
F	0.4	0.20	3218.	0.	0.	106.2	28.6	196.9	1.365E-04	2.299E-04	1.365E-04
F	0.5	0.05	3218.	0.	0.	106.2	28.6	196.9	1.133E-04	1.909E-04	1.133E-04
F	0.7	0.36	3218.	0.	0.	106.2	28.6	196.9	7.554E-05	1.273E-04	7.554E-05
F	1.0	1.10	3218.	0.	0.	106.2	28.6	196.9	5.665E-05	9.545E-05	5.665E-05
F	1.2	0.92	3218.	0.	0.	106.2	28.6	196.9	4.532E-05	7.636E-05	4.532E-05
F	1.5	1.19	3218.	0.	0.	106.2	28.6	196.9	3.777E-05	6.363E-05	3.777E-05
F	2.0	3.67	3218.	0.	0.	106.2	28.6	196.9	2.839E-05	4.783E-05	2.839E-05
F	3.0	3.99	3218.	0.	0.	106.2	28.6	148.9	2.500E-05	3.186E-05	2.500E-05
F	4.0	0.50	3218.	0.	0.	106.2	28.6	126.7	2.203E-05	2.389E-05	2.203E-05
F	5.0	0.11	3218.	0.	0.	106.2	28.6	114.3	1.955E-05	1.912E-05	1.912E-05
F	8.0	0.07	3218.	0.	0.	106.2	28.6	106.2	1.314E-05	1.194E-05	1.194E-05
G	0.4	0.68	3218.	0.	0.	73.3	18.2	177.6	2.378E-04	4.692E-04	2.378E-04
G	0.5	0.68	3218.	0.	0.	73.3	18.2	177.6	1.975E-04	3.896E-04	1.975E-04
G	0.7	1.78	3218.	0.	0.	73.3	18.2	177.6	1.317E-04	2.597E-04	1.317E-04
G	1.0	2.28	3218.	0.	0.	73.3	18.2	177.6	9.875E-05	1.948E-04	9.875E-05
G	1.2	2.12	3218.	0.	0.	73.3	18.2	177.6	7.900E-05	1.558E-04	7.900E-05
G	1.5	2.71	3218.	0.	0.	73.3	18.2	177.6	6.583E-05	1.299E-04	6.583E-05
G	2.0	3.49	3218.	0.	0.	73.3	18.2	177.6	4.948E-05	9.762E-05	4.948E-05
G	3.0	1.26	3218.	0.	0.	73.3	18.2	117.6	4.979E-05	6.503E-05	4.979E-05
G	4.0	0.02	3218.	0.	0.	73.3	18.2	93.2	4.711E-05	4.876E-05	4.711E-05
G	5.0	0.05	3218.	0.	0.	73.3	18.2	80.8	4.350E-05	3.903E-05	3.903E-05
G	6.0	0.02	3218.	0.	0.	73.3	18.2	73.5	3.983E-05	3.252E-05	3.252E-05
G	10.0	0.02	3218.	0.	0.	73.3	18.2	73.3	2.395E-05	1.951E-05	1.951E-05



10.49958    10.50668

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)= 0.351  
HANDCHECK GRAPH: SLOPE LT -1.0 FOR LOW PERCENTAGES. XSAVE ( 4)= 0.594  
HANDCHECK GRAPH: SLOPE LT -1.0 FOR LOW PERCENTAGES. XSAVE ( 5)= 1.151  
HANDCHECK GRAPH: SLOPE LT -1.0 FOR LOW PERCENTAGES. XSAVE ( 6)= 1.776  
HANDCHECK GRAPH: SLOPE LT -1.0 FOR LOW PERCENTAGES. XSAVE ( 7)= 1.876  
HANDCHECK GRAPH: SLOPE LT -1.0 FOR LOW PERCENTAGES. XSAVE ( 8)= 2.980  
HANDCHECK GRAPH: SLOPE LT -1.0 FOR LOW PERCENTAGES. XSAVE ( 9)= 3.101  
HANDCHECK GRAPH: SLOPE LT -1.0 FOR LOW PERCENTAGES. XSAVE (10)= 4.716  
HANDCHECK GRAPH: SLOPE LT -1.0 FOR LOW PERCENTAGES. XSAVE (12)= 5.351  
HANDCHECK GRAPH: SLOPE LT -1.0 FOR LOW PERCENTAGES. XSAVE (13)= 5.891  
HANDCHECK GRAPH: SLOPE LT -1.0 FOR LOW PERCENTAGES. XSAVE (14)= 6.630  
HANDCHECK GRAPH: SLOPE LT -1.0 FOR LOW PERCENTAGES. XSAVE (15)= 7.141

K	I	XQSAVE(K, I)	XQINT(K, I)	XQSLOP(K, I)
15	1	-8.34389	-11.23897	-0.90816
15	2	-8.52979	-12.74628	-1.41344
15	3	-8.93526	-13.22639	-1.59150
15	4	-9.22294	-13.42793	-1.67161
15	5	-9.62841	-13.43097	-1.67295
15	6	-9.91385	-18.24071	-3.96076
15	7	-10.00173	-16.30074	-3.02815
15	8	-10.59665	-17.23300	-3.52306
15	9	-10.65847	-17.19339	-3.50183
15	10	-11.33466	-12.63085	-0.77475
15	11	-11.33522	-16.01982	-2.80125
15	12	-11.50485	-17.63976	-3.80632
15	13	-11.68659	-19.53625	-5.01889
15	14	-11.98807	-20.65760	-5.76449
15	15	-12.21064	NUMXQ(K) = 15	
		2.148E-04	0.105	1.000
		1.385E-04	0.315	3.000
		1.058E-04	0.525	5.000
		6.982E-05	1.051	10.000
		5.367E-05	1.576	15.000
		3.937E-05	2.101	20.000
		2.957E-05	2.627	25.000
		2.295E-05	3.152	30.000
		1.799E-05	3.677	35.000
		1.449E-05	4.203	40.000
		1.194E-05	4.728	45.000
		1.035E-05	5.253	50.000
		8.730E-06	5.779	55.000
		7.088E-06	6.304	60.000
		5.702E-06	6.829	65.000
		1.088E-04	0.5	4.76



ANNUAL AVERAGE = 8.57E-07

K= 15      FIVEXQ(K)= 1.088E-04      FIVEPR(K)= 4.759

USNRC COMPUTER CODE-PAVAN, VERSION 2.0

RUN DATE: 03/07/07

PLANT NAME: Oyster Creek

METEOROLOGICAL INSTRUMENTATION

DATA PERIOD:

WIND SENSORS HEIGHT: Ground

TYPE OF RELEASE: Ground Release

DELTA-T HEIGHTS: 10.1-45.7 meters

SOURCE OF DATA:

COMMENTS: Oyster Creek, Ground Release, 1995-1999 met data

PROGRAM: PAVAN, 10/76, 8/79 REVISION, IMPLEMENTATION OF REGULATORY GUIDE 1.145

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

CLASS	METER/SEC AT 10.0 METERS	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	USED	
										CA= 957.SQ.METERS		
A	0.4	0.00	3218.	0.	0.	538.2	1000.0	538.2	1.426E-06	1.425E-06	1.425E-06	
A	1.0	0.04	3218.	0.	0.	538.2	1000.0	538.2	5.921E-07	5.918E-07	5.918E-07	
A	1.2	0.04	3218.	0.	0.	538.2	1000.0	538.2	4.737E-07	4.734E-07	4.734E-07	
A	1.5	0.19	3218.	0.	0.	538.2	1000.0	538.2	3.947E-07	3.945E-07	3.945E-07	
A	2.0	0.56	3218.	0.	0.	538.2	1000.0	538.2	2.967E-07	2.965E-07	2.965E-07	
A	3.0	2.17	3218.	0.	0.	538.2	1000.0	538.2	1.977E-07	1.975E-07	1.975E-07	
A	4.0	3.18	3218.	0.	0.	538.2	1000.0	538.2	1.482E-07	1.481E-07	1.481E-07	
A	5.0	2.65	3218.	0.	0.	538.2	1000.0	538.2	1.186E-07	1.186E-07	1.186E-07	
A	6.0	1.94	3218.	0.	0.	538.2	1000.0	538.2	9.883E-08	9.877E-08	9.877E-08	
A	8.0	0.93	3218.	0.	0.	538.2	1000.0	538.2	7.409E-08	7.405E-08	7.405E-08	
A	10.0	0.07	3218.	0.	0.	538.2	1000.0	538.2	5.929E-08	5.926E-08	5.926E-08	
A	24.5	0.04	3218.	0.	0.	538.2	1000.0	538.2	2.411E-08	2.410E-08	2.410E-08	
B	1.2	0.04	3218.	0.	0.	404.8	392.6	404.8	1.604E-06	1.601E-06	1.601E-06	
B	1.5	0.07	3218.	0.	0.	404.8	392.6	404.8	1.337E-06	1.334E-06	1.334E-06	
B	2.0	0.11	3218.	0.	0.	404.8	392.6	404.8	1.005E-06	1.003E-06	1.003E-06	
B	3.0	1.57	3218.	0.	0.	404.8	392.6	404.8	6.695E-07	6.682E-07	6.682E-07	
B	4.0	1.35	3218.	0.	0.	404.8	392.6	404.8	5.019E-07	5.010E-07	5.010E-07	
B	5.0	1.23	3218.	0.	0.	404.8	392.6	404.8	4.018E-07	4.011E-07	4.011E-07	
B	6.0	0.60	3218.	0.	0.	404.8	392.6	404.8	3.348E-07	3.341E-07	3.341E-07	
B	8.0	0.22	3218.	0.	0.	404.8	392.6	404.8	2.510E-07	2.505E-07	2.505E-07	
C	1.5	0.07	3218.	0.	0.	307.4	177.2	307.4	3.900E-06	3.879E-06	3.879E-06	
C	2.0	0.30	3218.	0.	0.	307.4	177.2	307.4	2.932E-06	2.916E-06	2.916E-06	
C	3.0	0.82	3218.	0.	0.	307.4	177.2	307.4	1.953E-06	1.942E-06	1.942E-06	
C	4.0	0.79	3218.	0.	0.	307.4	177.2	307.4	1.464E-06	1.456E-06	1.456E-06	
C	5.0	0.52	3218.	0.	0.	307.4	177.2	307.4	1.172E-06	1.166E-06	1.166E-06	
C	6.0	0.22	3218.	0.	0.	307.4	177.2	307.4	9.766E-07	9.711E-07	9.711E-07	
C	8.0	0.11	3218.	0.	0.	307.4	177.2	307.4	7.322E-07	7.281E-07	7.281E-07	
D	0.4	0.08	3218.	0.	0.	216.4	68.3	278.0	4.040E-05	5.085E-05	4.040E-05	
D	0.5	0.19	3218.	0.	0.	216.4	68.3	278.0	3.355E-05	4.222E-05	3.355E-05	
D	0.7	0.19	3218.	0.	0.	216.4	68.3	278.0	2.237E-05	2.815E-05	2.237E-05	
D	1.0	0.67	3218.	0.	0.	216.4	68.3	278.0	1.677E-05	2.111E-05	1.677E-05	
D	1.2	0.82	3218.	0.	0.	216.4	68.3	278.0	1.342E-05	1.689E-05	1.342E-05	
D	1.5	1.01	3218.	0.	0.	216.4	68.3	278.0	1.118E-05	1.407E-05	1.118E-05	
D	2.0	2.95	3218.	0.	0.	216.4	68.3	278.0	8.406E-06	1.058E-05	8.406E-06	
D	3.0	7.25	3218.	0.	0.	216.4	68.3	250.4	6.218E-06	7.048E-06	6.218E-06	
D	4.0	5.05	3218.	0.	0.	216.4	68.3	234.5	4.977E-06	5.284E-06	4.977E-06	
D	5.0	2.51	3218.	0.	0.	216.4	68.3	224.1	4.170E-06	4.230E-06	4.170E-06	
D	6.0	1.35	3218.	0.	0.	216.4	68.3	216.5	3.595E-06	3.524E-06	3.524E-06	
D	8.0	0.97	3218.	0.	0.	216.4	68.3	216.4	2.696E-06	2.642E-06	2.642E-06	
D	10.0	0.04	3218.	0.	0.	216.4	68.3	216.4	2.158E-06	2.114E-06	2.114E-06	

E	0.4	0.14	3218.	0.	0.	153.9	45.0	241.5	7.076E-05	1.063E-04	7.076E-05
E	0.5	0.11	3218.	0.	0.	153.9	45.0	241.5	5.875E-05	8.830E-05	5.875E-05
E	0.7	0.52	3218.	0.	0.	153.9	45.0	241.5	3.917E-05	5.887E-05	3.917E-05
E	1.0	1.20	3218.	0.	0.	153.9	45.0	241.5	2.938E-05	4.415E-05	2.938E-05
E	1.2	1.16	3218.	0.	0.	153.9	45.0	241.5	2.350E-05	3.532E-05	2.350E-05
E	1.5	2.06	3218.	0.	0.	153.9	45.0	241.5	1.958E-05	2.943E-05	1.958E-05
E	2.0	4.04	3218.	0.	0.	153.9	45.0	241.5	1.472E-05	2.213E-05	1.472E-05
E	3.0	9.72	3218.	0.	0.	153.9	45.0	198.1	1.195E-05	1.474E-05	1.195E-05
E	4.0	6.24	3218.	0.	0.	153.9	45.0	176.1	1.008E-05	1.105E-05	1.008E-05
E	5.0	2.95	3218.	0.	0.	153.9	45.0	162.9	8.722E-06	8.846E-06	8.722E-06
E	6.0	1.42	3218.	0.	0.	153.9	45.0	154.1	7.682E-06	7.370E-06	7.370E-06
E	8.0	0.90	3218.	0.	0.	153.9	45.0	153.9	5.768E-06	5.525E-06	5.525E-06
E	10.0	0.07	3218.	0.	0.	153.9	45.0	153.9	4.615E-06	4.421E-06	4.421E-06
F	0.4	0.18	3218.	0.	0.	106.2	28.6	196.9	1.365E-04	2.299E-04	1.365E-04
F	0.5	0.15	3218.	0.	0.	106.2	28.6	196.9	1.133E-04	1.909E-04	1.133E-04
F	0.7	0.34	3218.	0.	0.	106.2	28.6	196.9	7.554E-05	1.273E-04	7.554E-05
F	1.0	0.97	3218.	0.	0.	106.2	28.6	196.9	5.665E-05	9.545E-05	5.665E-05
F	1.2	0.67	3218.	0.	0.	106.2	28.6	196.9	4.532E-05	7.636E-05	4.532E-05
F	1.5	1.38	3218.	0.	0.	106.2	28.6	196.9	3.777E-05	6.363E-05	3.777E-05
F	2.0	3.18	3218.	0.	0.	106.2	28.6	196.9	2.839E-05	4.783E-05	2.839E-05
F	3.0	4.04	3218.	0.	0.	106.2	28.6	148.9	2.500E-05	3.186E-05	2.500E-05
F	4.0	0.49	3218.	0.	0.	106.2	28.6	126.7	2.203E-05	2.389E-05	2.203E-05
F	5.0	0.15	3218.	0.	0.	106.2	28.6	114.3	1.955E-05	1.912E-05	1.912E-05
G	0.4	0.48	3218.	0.	0.	73.3	18.2	177.6	2.378E-04	4.692E-04	2.378E-04
G	0.5	0.34	3218.	0.	0.	73.3	18.2	177.6	1.975E-04	3.896E-04	1.975E-04
G	0.7	1.20	3218.	0.	0.	73.3	18.2	177.6	1.317E-04	2.597E-04	1.317E-04
G	1.0	2.02	3218.	0.	0.	73.3	18.2	177.6	9.875E-05	1.948E-04	9.875E-05
G	1.2	1.23	3218.	0.	0.	73.3	18.2	177.6	7.900E-05	1.558E-04	7.900E-05
G	1.5	2.24	3218.	0.	0.	73.3	18.2	177.6	6.583E-05	1.299E-04	6.583E-05
G	2.0	4.34	3218.	0.	0.	73.3	18.2	177.6	4.948E-05	9.762E-05	4.948E-05
G	3.0	2.99	3218.	0.	0.	73.3	18.2	117.6	4.979E-05	6.503E-05	4.979E-05
G	4.0	0.15	3218.	0.	0.	73.3	18.2	93.2	4.711E-05	4.876E-05	4.711E-05

USNRC COMPUTER CODE-PAVAN, VERSION 2.0

RUN DATE: 03/07/07

PLANT NAME: Oyster Creek

METEOROLOGICAL INSTRUMENTATION

DATA PERIOD:

WIND SENSORS HEIGHT: Ground

TYPE OF RELEASE: Ground Release

DELTA-T HEIGHTS: 10.1-45.7 meters

SOURCE OF DATA:

COMMENTS: Oyster Creek, Ground Release, 1995-1999 met data

PROGRAM: PAVAN, 10/76, 8/79 REVISION, IMPLEMENTATION OF REGULATORY GUIDE 1.145

LOW POPULATION ZONE CALCULATIONS:

SSE SECTOR      BOUNDARY DISTANCE = 3218.0 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= 1913.      D= 44.8

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.

2.378E-04	1.975E-04	1.365E-04	1.317E-04	1.133E-04	9.875E-05	7.900E-05	7.554E-05	7.076E-05	6.583E-05
0.477	0.813	0.989	2.185	2.335	4.354	5.588	5.925	6.062	8.306
0.03020	0.05152	0.06264	0.13844	0.14791	0.27583	0.35400	0.37532	0.38402	0.52615
5.875E-05	5.665E-05	4.979E-05	4.948E-05	4.711E-05	4.532E-05	4.040E-05	3.917E-05	3.777E-05	3.355E-05
8.418	9.390	12.382	16.719	16.869	17.542	17.620	18.144	19.527	19.714
0.53325	0.59484	0.78435	1.05913	1.06861	1.11125	1.11621	1.14938	1.23702	1.24887
2.938E-05	2.839E-05	2.500E-05	2.350E-05	2.237E-05	2.203E-05	1.958E-05	1.912E-05	1.677E-05	1.472E-05
20.911	24.089	28.128	29.287	29.474	29.960	32.017	32.166	32.839	36.878
1.32467	1.52602	1.78185	1.85529	1.86713	1.89793	2.02821	2.03769	2.08033	2.33616
1.342E-05	1.195E-05	1.118E-05	1.008E-05	8.722E-06	8.406E-06	7.370E-06	6.218E-06	5.525E-06	4.977E-06
37.701	47.423	48.433	54.677	57.631	60.585	62.006	69.261	70.158	75.206
2.38827	3.00417	3.06813	3.46372	3.65086	3.83800	3.92801	4.38756	4.44442	4.76421
4.421E-06	4.170E-06	3.879E-06	3.524E-06	2.916E-06	2.642E-06	2.114E-06	1.942E-06	1.601E-06	1.456E-06
75.281	77.786	77.861	79.207	79.507	80.479	80.516	81.339	81.376	82.162
4.76894	4.92766	4.93239	5.01767	5.03662	5.09821	5.10058	5.15269	5.15506	5.20481
1.425E-06	1.334E-06	1.166E-06	1.003E-06	9.711E-07	7.281E-07	6.682E-07	5.918E-07	5.010E-07	4.734E-07
82.163	82.238	82.762	82.874	83.098	83.210	84.781	84.818	86.164	86.202
5.20492	5.20966	5.24282	5.24993	5.26414	5.27125	5.37074	5.37311	5.45838	5.46075
4.011E-07	3.945E-07	3.341E-07	2.965E-07	2.505E-07	1.975E-07	1.481E-07	1.186E-07	9.877E-08	7.405E-08
87.436	87.623	88.221	88.782	89.006	91.175	94.354	97.009	98.953	99.888
5.53892	5.55077	5.58867	5.62420	5.63841	5.77581	5.97716	6.14534	6.26852	6.32774
5.926E-08	2.410E-08								
99.963	100.000								
6.33248	6.33485								

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)= 0.051  
HANDCHECK GRAPH: SLOPE LT -1.0 FOR LOW PERCENTAGES. XSAVE( 3)= 0.276  
HANDCHECK GRAPH: SLOPE LT -1.0 FOR LOW PERCENTAGES. XSAVE( 4)= 1.058  
HANDCHECK GRAPH: SLOPE LT -1.0 FOR LOW PERCENTAGES. XSAVE( 5)= 1.780  
HANDCHECK GRAPH: SLOPE LT -1.0 FOR LOW PERCENTAGES. XSAVE( 6)= 3.001  
HANDCHECK GRAPH: SLOPE LT -1.0 FOR LOW PERCENTAGES. XSAVE( 7)= 3.461  
HANDCHECK GRAPH: SLOPE LT -1.0 FOR LOW PERCENTAGES. XSAVE( 8)= 3.835  
HANDCHECK GRAPH: SLOPE LT -1.0 FOR LOW PERCENTAGES. XSAVE( 9)= 4.384  
HANDCHECK GRAPH: SLOPE LT -1.0 FOR LOW PERCENTAGES. XSAVE(10)= 4.761

K	I	XQSAVE(K, I)	XQINT(K, I)	XQSLOP(K, I)
16	1	-8.34389	-12.66208	-1.25896
16	2	-8.52979	-13.01956	-1.36787
16	3	-9.22294	-13.29942	-1.46870
16	4	-9.91385	-17.64192	-3.35252
16	5	-10.59665	-17.61805	-3.34116
16	6	-11.33466	-16.36957	-2.67729
16	7	-11.50485	-18.55605	-3.88061
16	8	-11.68659	-20.23359	-4.82827
16	9	-11.98807	-21.67576	-5.67275
16	10	-12.21064	NUMXQ(K)= 10	
		1.823E-04	0.063	1.000
		1.162E-04	0.190	3.000
		9.240E-05	0.317	5.000
		6.524E-05	0.633	10.000
		5.253E-05	0.950	15.000
		3.933E-05	1.267	20.000
		2.931E-05	1.584	25.000
		2.290E-05	1.900	30.000
		1.849E-05	2.217	35.000
		1.530E-05	2.534	40.000
		1.291E-05	2.851	45.000
		1.122E-05	3.167	50.000
		9.977E-06	3.484	55.000
		8.553E-06	3.801	60.000
		7.181E-06	4.118	65.000
		6.043E-06	4.434	70.000
		5.015E-06	4.751	75.000
		7.368E-05	0.5	7.89

ANNUAL AVERAGE = 4.96E-07

K= 16 FIVEXQ(K)= 7.368E-05 FIVEPR(K)= 7.893

USNRC COMPUTER CODE-PAVAN, VERSION 2.0

RUN DATE: 03/07/07

PLANT NAME: Oyster Creek

METEOROLOGICAL INSTRUMENTATION

DATA PERIOD:

WIND SENSORS HEIGHT: Ground

TYPE OF RELEASE: Ground Release

DELTA-T HEIGHTS: 10.1-45.7 meters

SOURCE OF DATA:

COMMENTS: Oyster Creek, Ground Release, 1995-1999 met data

PROGRAM: PAVAN, 10/76, 8/79 REVISION, IMPLEMENTATION OF REGULATORY GUIDE 1.145

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

CLASS	METER/SEC	PERCENT	DISTANCE METERS	TERRAIN METERS	HT METERS	EFF PLUME METERS	SIGMA-Y METERS	SIGMA-Z METERS	MEANDER-SY METERS	** CHI/Q VALUES (SEC/CUBIC METER)		
										MEANDER	BLDG WAKE	USED
AT 10.0 METERS												
A	0.4	0.00	3218.	0.	0.	538.2	1000.0	538.2	1.426E-06	1.425E-06	1.425E-06	
A	0.5	0.00	3218.	0.	0.	538.2	1000.0	538.2	1.184E-06	1.184E-06	1.184E-06	
A	0.7	0.01	3218.	0.	0.	538.2	1000.0	538.2	7.895E-07	7.890E-07	7.890E-07	
A	1.0	0.02	3218.	0.	0.	538.2	1000.0	538.2	5.921E-07	5.918E-07	5.918E-07	
A	1.2	0.07	3218.	0.	0.	538.2	1000.0	538.2	4.737E-07	4.734E-07	4.734E-07	
A	1.5	0.22	3218.	0.	0.	538.2	1000.0	538.2	3.947E-07	3.945E-07	3.945E-07	
A	2.0	0.78	3218.	0.	0.	538.2	1000.0	538.2	2.967E-07	2.965E-07	2.965E-07	
A	3.0	2.32	3218.	0.	0.	538.2	1000.0	538.2	1.977E-07	1.975E-07	1.975E-07	
A	4.0	3.89	3218.	0.	0.	538.2	1000.0	538.2	1.482E-07	1.481E-07	1.481E-07	
A	5.0	3.91	3218.	0.	0.	538.2	1000.0	538.2	1.186E-07	1.186E-07	1.186E-07	
A	6.0	2.59	3218.	0.	0.	538.2	1000.0	538.2	9.883E-08	9.877E-08	9.877E-08	
A	8.0	1.71	3218.	0.	0.	538.2	1000.0	538.2	7.409E-08	7.405E-08	7.405E-08	
A	10.0	0.20	3218.	0.	0.	538.2	1000.0	538.2	5.929E-08	5.926E-08	5.926E-08	
A	24.5	0.03	3218.	0.	0.	538.2	1000.0	538.2	2.411E-08	2.410E-08	2.410E-08	
B	0.7	0.01	3218.	0.	0.	404.8	392.6	404.8	2.674E-06	2.669E-06	2.669E-06	
B	1.0	0.02	3218.	0.	0.	404.8	392.6	404.8	2.006E-06	2.002E-06	2.002E-06	
B	1.2	0.05	3218.	0.	0.	404.8	392.6	404.8	1.604E-06	1.601E-06	1.601E-06	
B	1.5	0.14	3218.	0.	0.	404.8	392.6	404.8	1.337E-06	1.334E-06	1.334E-06	
B	2.0	0.36	3218.	0.	0.	404.8	392.6	404.8	1.005E-06	1.003E-06	1.003E-06	
B	3.0	1.31	3218.	0.	0.	404.8	392.6	404.8	6.695E-07	6.682E-07	6.682E-07	
B	4.0	1.43	3218.	0.	0.	404.8	392.6	404.8	5.019E-07	5.010E-07	5.010E-07	
B	5.0	0.92	3218.	0.	0.	404.8	392.6	404.8	4.018E-07	4.011E-07	4.011E-07	
B	6.0	0.51	3218.	0.	0.	404.8	392.6	404.8	3.348E-07	3.341E-07	3.341E-07	
B	8.0	0.44	3218.	0.	0.	404.8	392.6	404.8	2.510E-07	2.505E-07	2.505E-07	
B	10.0	0.04	3218.	0.	0.	404.8	392.6	404.8	2.008E-07	2.004E-07	2.004E-07	
B	24.5	0.01	3218.	0.	0.	404.8	392.6	404.8	8.168E-08	8.152E-08	8.152E-08	
C	0.7	0.01	3218.	0.	0.	307.4	177.2	307.4	7.801E-06	7.758E-06	7.758E-06	
C	1.0	0.02	3218.	0.	0.	307.4	177.2	307.4	5.851E-06	5.818E-06	5.818E-06	
C	1.2	0.04	3218.	0.	0.	307.4	177.2	307.4	4.681E-06	4.655E-06	4.655E-06	
C	1.5	0.09	3218.	0.	0.	307.4	177.2	307.4	3.900E-06	3.879E-06	3.879E-06	
C	2.0	0.26	3218.	0.	0.	307.4	177.2	307.4	2.932E-06	2.916E-06	2.916E-06	
C	3.0	0.71	3218.	0.	0.	307.4	177.2	307.4	1.953E-06	1.942E-06	1.942E-06	
C	4.0	0.67	3218.	0.	0.	307.4	177.2	307.4	1.464E-06	1.456E-06	1.456E-06	
C	5.0	0.45	3218.	0.	0.	307.4	177.2	307.4	1.172E-06	1.166E-06	1.166E-06	
C	6.0	0.24	3218.	0.	0.	307.4	177.2	307.4	9.766E-07	9.711E-07	9.711E-07	
C	8.0	0.19	3218.	0.	0.	307.4	177.2	307.4	7.322E-07	7.281E-07	7.281E-07	
C	10.0	0.03	3218.	0.	0.	307.4	177.2	307.4	5.859E-07	5.826E-07	5.826E-07	
C	24.5	0.01	3218.	0.	0.	307.4	177.2	307.4	2.383E-07	2.370E-07	2.370E-07	
D	0.4	0.06	3218.	0.	0.	216.4	68.3	216.4	5.190E-05	5.085E-05	5.085E-05	
D	0.5	0.07	3218.	0.	0.	216.4	68.3	216.4	4.309E-05	4.222E-05	4.222E-05	

CA= 957.SQ.METERS

D	0.7	0.23	3218.	0.	0.	216.4	68.3	216.4	2.873E-05	2.815E-05	2.815E-05
D	1.0	0.48	3218.	0.	0.	216.4	68.3	216.4	2.155E-05	2.111E-05	2.111E-05
D	1.2	0.69	3218.	0.	0.	216.4	68.3	216.4	1.724E-05	1.689E-05	1.689E-05
D	1.5	1.10	3218.	0.	0.	216.4	68.3	216.4	1.436E-05	1.407E-05	1.407E-05
D	2.0	2.39	3218.	0.	0.	216.4	68.3	216.4	1.080E-05	1.058E-05	1.058E-05
D	3.0	5.99	3218.	0.	0.	216.4	68.3	216.4	7.193E-06	7.048E-06	7.048E-06
D	4.0	5.03	3218.	0.	0.	216.4	68.3	216.4	5.393E-06	5.284E-06	5.284E-06
D	5.0	3.36	3218.	0.	0.	216.4	68.3	216.4	4.317E-06	4.230E-06	4.230E-06
D	6.0	1.97	3218.	0.	0.	216.4	68.3	216.4	3.596E-06	3.524E-06	3.524E-06
D	8.0	1.60	3218.	0.	0.	216.4	68.3	216.4	2.696E-06	2.642E-06	2.642E-06
D	10.0	0.39	3218.	0.	0.	216.4	68.3	216.4	2.158E-06	2.114E-06	2.114E-06
D	24.5	0.06	3218.	0.	0.	216.4	68.3	216.4	8.775E-07	8.598E-07	8.598E-07
E	0.4	0.14	3218.	0.	0.	153.9	45.0	153.9	1.110E-04	1.063E-04	1.063E-04
E	0.5	0.14	3218.	0.	0.	153.9	45.0	153.9	9.218E-05	8.830E-05	8.830E-05
E	0.7	0.48	3218.	0.	0.	153.9	45.0	153.9	6.145E-05	5.887E-05	5.887E-05
E	1.0	1.15	3218.	0.	0.	153.9	45.0	153.9	4.609E-05	4.415E-05	4.415E-05
E	1.2	1.22	3218.	0.	0.	153.9	45.0	153.9	3.687E-05	3.532E-05	3.532E-05
E	1.5	1.80	3218.	0.	0.	153.9	45.0	153.9	3.073E-05	2.943E-05	2.943E-05
E	2.0	3.92	3218.	0.	0.	153.9	45.0	153.9	2.310E-05	2.213E-05	2.213E-05
E	3.0	8.40	3218.	0.	0.	153.9	45.0	153.9	1.539E-05	1.474E-05	1.474E-05
E	4.0	5.60	3218.	0.	0.	153.9	45.0	153.9	1.154E-05	1.105E-05	1.105E-05
E	5.0	3.16	3218.	0.	0.	153.9	45.0	153.9	9.235E-06	8.846E-06	8.846E-06
E	6.0	1.62	3218.	0.	0.	153.9	45.0	153.9	7.693E-06	7.370E-06	7.370E-06
E	8.0	1.15	3218.	0.	0.	153.9	45.0	153.9	5.768E-06	5.525E-06	5.525E-06
E	10.0	0.23	3218.	0.	0.	153.9	45.0	153.9	4.615E-06	4.421E-06	4.421E-06
E	24.5	0.05	3218.	0.	0.	153.9	45.0	153.9	1.877E-06	1.798E-06	1.798E-06
F	0.4	0.18	3218.	0.	0.	106.2	28.6	106.2	2.529E-04	2.299E-04	2.299E-04
F	0.5	0.09	3218.	0.	0.	106.2	28.6	106.2	2.100E-04	1.909E-04	1.909E-04
F	0.7	0.42	3218.	0.	0.	106.2	28.6	106.2	1.400E-04	1.273E-04	1.273E-04
F	1.0	0.79	3218.	0.	0.	106.2	28.6	106.2	1.050E-04	9.545E-05	9.545E-05
F	1.2	0.82	3218.	0.	0.	106.2	28.6	106.2	8.400E-05	7.636E-05	7.636E-05
F	1.5	1.23	3218.	0.	0.	106.2	28.6	106.2	7.000E-05	6.363E-05	6.363E-05
F	2.0	2.57	3218.	0.	0.	106.2	28.6	106.2	5.262E-05	4.783E-05	4.783E-05
F	3.0	3.16	3218.	0.	0.	106.2	28.6	106.2	3.505E-05	3.186E-05	3.186E-05
F	4.0	0.45	3218.	0.	0.	106.2	28.6	106.2	2.628E-05	2.389E-05	2.389E-05
F	5.0	0.14	3218.	0.	0.	106.2	28.6	106.2	2.104E-05	1.912E-05	1.912E-05
F	6.0	0.04	3218.	0.	0.	106.2	28.6	106.2	1.753E-05	1.593E-05	1.593E-05
F	8.0	0.04	3218.	0.	0.	106.2	28.6	106.2	1.314E-05	1.194E-05	1.194E-05
F	10.0	0.01	3218.	0.	0.	106.2	28.6	106.2	1.051E-05	9.558E-06	9.558E-06
G	0.4	0.55	3218.	0.	0.	73.3	18.2	73.3	5.762E-04	4.692E-04	4.692E-04
G	0.5	0.38	3218.	0.	0.	73.3	18.2	73.3	4.784E-04	3.896E-04	3.896E-04
G	0.7	1.26	3218.	0.	0.	73.3	18.2	73.3	3.190E-04	2.597E-04	2.597E-04
G	1.0	2.02	3218.	0.	0.	73.3	18.2	73.3	2.392E-04	1.948E-04	1.948E-04
G	1.2	1.84	3218.	0.	0.	73.3	18.2	73.3	1.914E-04	1.558E-04	1.558E-04
G	1.5	2.63	3218.	0.	0.	73.3	18.2	73.3	1.595E-04	1.299E-04	1.299E-04
G	2.0	3.48	3218.	0.	0.	73.3	18.2	73.3	1.199E-04	9.762E-05	9.762E-05
G	3.0	1.51	3218.	0.	0.	73.3	18.2	73.3	7.986E-05	6.503E-05	6.503E-05
G	4.0	0.09	3218.	0.	0.	73.3	18.2	73.3	5.987E-05	4.876E-05	4.876E-05
G	5.0	0.06	3218.	0.	0.	73.3	18.2	73.3	4.793E-05	3.903E-05	3.903E-05
G	6.0	0.04	3218.	0.	0.	73.3	18.2	73.3	3.993E-05	3.252E-05	3.252E-05
G	8.0	0.01	3218.	0.	0.	73.3	18.2	73.3	2.994E-05	2.438E-05	2.438E-05
G	10.0	0.00	3218.	0.	0.	73.3	18.2	73.3	2.395E-05	1.951E-05	1.951E-05





99.96683    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

HANDCHECK GRAPH: SLOPE LT -1.0 FOR LOW PERCENTAGES. XSAVE ( 3)= 4.376  
 HANDCHECK GRAPH: SLOPE LT -1.0 FOR LOW PERCENTAGES. XSAVE ( 4)= 9.358  
 HANDCHECK GRAPH: SLOPE LT -1.0 FOR LOW PERCENTAGES. XSAVE ( 5)= 13.771  
 HANDCHECK GRAPH: SLOPE LT -1.0 FOR LOW PERCENTAGES. XSAVE ( 6)= 21.835

3.778E-04	1.000	1.000
2.344E-04	3.000	3.000
1.818E-04	5.000	5.000
1.214E-04	10.000	10.000
8.351E-05	15.000	15.000
5.165E-05	20.000	20.000
3.579E-05	25.000	25.000
2.621E-05	30.000	30.000
2.010E-05	35.000	35.000
1.633E-05	40.000	40.000
1.346E-05	45.000	45.000
1.123E-05	50.000	50.000
9.345E-06	55.000	55.000
7.741E-06	60.000	60.000
6.272E-06	65.000	65.000
4.979E-06	70.000	70.000
3.952E-06	75.000	75.000
3.055E-06	80.000	80.000
2.264E-06	85.000	85.000
1.552E-06	90.000	90.000
1.818E-04	5.0	5.00

K= 17    FIVEXQ(K)= 1.818E-04    FIVEPR(K)= 5.000



99.96641 99.99956

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)= 9.496  
 HANDCHECK GRAPH: SLOPE LT -1.0 FOR LOW PERCENTAGES. XSAVE( 5)= 16.337

K	I	XQSAVE(K, I)	XQINT(K, I)	XQSLOP(K, I)
18	1	-8.34389	-10.84057	-0.98105
18	2	-8.52979	-11.00706	-1.05174
18	3	-9.62841	-10.90759	-0.97586
18	4	-9.91385	-12.29352	-2.33684
18	5	-10.00173	-11.87675	-1.91188
18	6	-10.59665	-11.68067	-1.61903
18	7	-10.65847	-12.10646	-2.29343
18	8	-11.12624	-11.49782	-0.86938
18	9	-11.33522	-11.52321	-1.00516
18	10	-11.50485	-11.52872	-1.30663
18	11	-11.68659	-11.51290	-1.43755
18	12	-12.21064	-11.47305	-1.51965
18	13	-16.64141	NUMXQ(K)= 13	
		1.916E-04	1.000	1.000
		1.199E-04	3.000	3.000
		9.358E-05	5.000	5.000
		6.399E-05	10.000	10.000
		5.037E-05	15.000	15.000
		3.473E-05	20.000	20.000
		2.522E-05	25.000	25.000
		1.837E-05	30.000	30.000
		1.419E-05	35.000	35.000
		1.265E-05	40.000	40.000
		1.123E-05	45.000	45.000
		9.843E-06	50.000	50.000
		8.351E-06	55.000	55.000
		6.952E-06	60.000	60.000
		5.751E-06	65.000	65.000
		4.693E-06	70.000	70.000
		3.736E-06	75.000	75.000
		2.897E-06	80.000	80.000
		2.154E-06	85.000	85.000
		1.484E-06	90.000	90.000
		9.358E-05	5.0	5.00

K= 18 FIVEXQ(K)= 9.358E-05 FIVEPR(K)= 5.000

K	HIGHPR	PR	GRNDVT(K)
1	-3.13848	0.08492	3.17641
2	-1.99719	2.29024	2.93597
3	-3.42548	0.03069	4.93912

4	-3.52965	0.02081	4.51579
5	-3.44299	0.02877	3.74041
6	-3.55530	0.01888	2.67011
7	-3.48786	0.02435	4.14703
8	-3.38949	0.03502	4.12627
9	-3.13379	0.08629	7.18082
10	-3.07123	0.10660	6.96866
11	-2.96162	0.15302	6.53527
12	-2.63878	0.41603	10.49508
13	-2.57624	0.49942	10.75935
14	-2.68247	0.36541	10.96817
15	-2.71660	0.32979	10.50669
16	-3.00688	0.13198	6.33485

K	HOURS (K)	TOTHR
1	7.43888	7.43888
2	200.62530	208.06420
3	2.68848	210.75260
4	1.82278	212.57540
5	2.52035	215.09580
6	1.65413	216.74990
7	2.13293	218.88280
8	3.06755	221.95040
9	7.55897	229.50940
10	9.33789	238.84730
11	13.40429	252.25160
12	36.44462	288.69620
13	43.74879	332.44490
14	32.01011	364.45500
15	28.88930	393.34440
16	11.56115	404.90550

K	FIVEXQ	SVANN	SLTIME	TIMINT	I	TIME	XQT
1	3.166E-05	2.408E-07	-0.5819	-9.9571			
					1	8.0	-11.16710
					2	16.0	-11.57042
					3	72.0	-12.44561
					4	624.0	-13.70215
2	2.071E-05	1.920E-07	-0.5582	-10.3980			
					1	8.0	-11.55884
					2	16.0	-11.94578
					3	72.0	-12.78540
					4	624.0	-13.99090
3	2.121E-05	2.264E-07	-0.5414	-10.3860			
					1	8.0	-11.51178
					2	16.0	-11.88705
					3	72.0	-12.70137
					4	624.0	-13.87053
4	1.672E-05	1.606E-07	-0.5540	-10.6150			
					1	8.0	-11.76696
					2	16.0	-12.15094
					3	72.0	-12.98416
					4	624.0	-14.18045
5	1.651E-05	1.533E-07	-0.5581	-10.6245			
					1	8.0	-11.78493
					2	16.0	-12.17174
					3	72.0	-13.01110

6	1.138E-05	1.006E-07	-0.5639	-10.9928	4	624.0	-14.21622
					1	8.0	-12.16533
					2	16.0	-12.55617
					3	72.0	-13.40426
					4	624.0	-14.62190
7	1.872E-05	1.713E-07	-0.5598	-10.4977	1	8.0	-11.66179
					2	16.0	-12.04982
					3	72.0	-12.89179
					4	624.0	-14.10066
					1	8.0	-11.29807
8	2.782E-05	2.096E-07	-0.5830	-10.0859	2	16.0	-11.70215
					3	72.0	-12.57895
					4	624.0	-13.83783
					1	8.0	-10.79071
					2	16.0	-11.18817
9	4.559E-05	3.722E-07	-0.5734	-9.5983	3	72.0	-12.05063
					4	624.0	-13.28891
					1	8.0	-10.60939
					2	16.0	-11.00568
					3	72.0	-11.86560
10	5.453E-05	4.515E-07	-0.5717	-9.4205	4	624.0	-13.10023
					1	8.0	-10.25896
					2	16.0	-10.66302
					3	72.0	-11.53979
					4	624.0	-12.79861
11	7.862E-05	5.926E-07	-0.5829	-9.0468	1	8.0	-9.75589
					2	16.0	-10.14051
					3	72.0	-10.97510
					4	624.0	-12.17337
					1	8.0	-9.68317
12	1.251E-04	1.193E-06	-0.5549	-8.6020	2	16.0	-10.07149
					3	72.0	-10.91410
					4	624.0	-12.12389
					1	8.0	-9.85271
					2	16.0	-10.25542
13	1.355E-04	1.236E-06	-0.5602	-8.5182	3	72.0	-11.12928
					4	624.0	-12.38392
					1	8.0	-9.92708
					2	16.0	-10.32747
					3	72.0	-11.19627
14	1.177E-04	9.017E-07	-0.5810	-8.6446	4	624.0	-12.44366
					1	8.0	-10.34238
					2	16.0	-10.75572
					3	72.0	-11.65263
					4	624.0	-12.94036
15	1.088E-04	8.570E-07	-0.5776	-8.7259	1	8.0	-9.92708
					2	16.0	-10.32747
					3	72.0	-11.19627
					4	624.0	-12.44366
					1	8.0	-10.34238
16	7.368E-05	4.964E-07	-0.5963	-9.1024	2	16.0	-10.75572
					3	72.0	-11.65263
					4	624.0	-12.94036
					1	8.0	-9.92708
					2	16.0	-10.32747
17	1.818E-04	1.236E-06	-0.5953	-8.2002	3	72.0	-11.19627
					4	624.0	-12.44366
					1	8.0	-9.92708
					2	16.0	-10.32747
					3	72.0	-11.19627

1	8.0	-9.43796
2	16.0	-9.85056
3	72.0	-10.74587
4	624.0	-12.03132

18 9.358E-05 1.236E-06 -0.5161 -8.9190

1	8.0	-9.99216
2	16.0	-10.34987
3	72.0	-11.12608
4	624.0	-12.24053

USNRC COMPUTER CODE-PAVAN, VERSION 2.0

RUN DATE: 03/07/07

PLANT NAME: Oyster Creek

METEOROLOGICAL INSTRUMENTATION

DATA PERIOD:

WIND SENSORS HEIGHT: Ground

TYPE OF RELEASE: Ground Release

DELTA-T HEIGHTS: 10.1-45.7 meters

SOURCE OF DATA:

COMMENTS: Oyster Creek, Ground Release, 1995-1999 met data

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 DISTANCE SECTOR (METERS)	0-2 HOURS	0-8 HOURS	8-24 HOURS	1-4 DAYS	4-30 DAYS	HOURS PER YEAR MAX		DOWNWIND SECTOR
						ANNUAL AVERAGE	0-2 HR X/Q IS EXCEEDED IN SECTOR	
S 3218.	3.17E-05	1.41E-05	9.44E-06	3.93E-06	1.12E-06	2.41E-07	7.4	S
SSW 3218.	2.07E-05	9.55E-06	6.49E-06	2.80E-06	8.39E-07	1.92E-07	200.6	SSW
SW 3218.	2.12E-05	1.00E-05	6.88E-06	3.05E-06	9.46E-07	2.26E-07	2.7	SW
WSW 3218.	1.67E-05	7.76E-06	5.28E-06	2.30E-06	6.94E-07	1.61E-07	1.8	WSW
W 3218.	1.65E-05	7.62E-06	5.17E-06	2.24E-06	6.70E-07	1.53E-07	2.5	W
WNW 3218.	1.14E-05	5.21E-06	3.52E-06	1.51E-06	4.46E-07	1.01E-07	1.7	WNW
NW 3218.	1.87E-05	8.62E-06	5.85E-06	2.52E-06	7.52E-07	1.71E-07	2.1	NW
NNW 3218.	2.78E-05	1.24E-05	8.28E-06	3.44E-06	9.78E-07	2.10E-07	3.1	NNW
N 3218.	4.56E-05	2.06E-05	1.38E-05	5.84E-06	1.69E-06	3.72E-07	7.6	N
NNE 3218.	5.45E-05	2.47E-05	1.66E-05	7.03E-06	2.04E-06	4.51E-07	9.3	NNE
NE 3218.	7.86E-05	3.50E-05	2.34E-05	9.73E-06	2.76E-06	5.93E-07	13.4	NE
ENE 3218.	1.25E-04	5.80E-05	3.94E-05	1.71E-05	5.17E-06	1.19E-06	36.4	ENE
E 3218.	1.35E-04	6.23E-05	4.23E-05	1.82E-05	5.43E-06	1.24E-06	43.7	E
ESE 3218.	1.18E-04	5.26E-05	3.52E-05	1.47E-05	4.19E-06	9.02E-07	32.0	ESE
SE 3218.	1.09E-04	4.88E-05	3.27E-05	1.37E-05	3.94E-06	8.57E-07	28.9	SE
SSE 3218.	7.37E-05	3.22E-05	2.13E-05	8.70E-06	2.40E-06	4.96E-07	11.6	SSE
MAX X/Q	1.35E-04					TOTAL HOURS AROUND SITE:	404.9	
SRP 2.3.4 3218.	1.82E-04	7.96E-05	5.27E-05	2.15E-05	5.95E-06	1.24E-06		
SITE LIMIT	9.36E-05	4.58E-05	3.20E-05	1.47E-05	4.83E-06	1.24E-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.

## Off-Gas Stack Release

1 1111  
 Oyster Creek Elevated Release  
 112 meters 10.1-115.8 meters

Oyster Creek, Elevated Release, Stack, 1995-1999 met data

14	2	14	2	14	2	14	2	14	2	14	2	14	2	14	2
1913.	44.8	112.0	115.8	0	1	0	18	11	9	21					
0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
0.	0.	0.	0.	0.	0.	0.	0.	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.	1.	0.	1.	0.	0.	0.	0.	0.	0.	0.	0.	0.	1.
1.	0.	3.	0.	0.	2.	1.	2.	1.	1.	1.	1.	1.	0.	1.	0.
1.	1.	0.	0.	2.	4.	1.	0.	0.	1.	4.	4.	0.	3.	1.	1.
1.	1.	2.	5.	7.	7.	4.	2.	1.	2.	8.	2.	3.	2.	1.	1.
0.	2.	5.	8.	8.	3.	11.	8.	5.	4.	4.	5.	7.	3.	4.	0.
2.	3.	22.	19.	2.	3.	10.	13.	19.	12.	7.	9.	21.	36.	30.	4.
0.	1.	12.	8.	0.	0.	0.	4.	12.	12.	2.	7.	21.	49.	44.	6.
0.	0.	3.	4.	1.	0.	0.	0.	4.	4.	1.	7.	14.	48.	56.	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.
0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
0.	0.	0.	1.	2.	1.	2.	0.	2.	1.	0.	3.	0.	0.	4.	0.
4.	1.	2.	4.	5.	4.	4.	0.	2.	4.	2.	4.	5.	4.	4.	3.
10.	8.	5.	14.	33.	33.	25.	5.	4.	9.	15.	11.	14.	18.	11.	8.
5.	2.	18.	41.	51.	45.	61.	22.	11.	10.	14.	25.	29.	30.	39.	22.
12.	3.	31.	70.	35.	21.	50.	49.	31.	12.	5.	35.	46.	40.	52.	21.
9.	5.	36.	52.	12.	10.	32.	55.	85.	55.	26.	59.	78.	99.	101.	45.
1.	1.	28.	14.	1.	0.	1.	5.	28.	35.	19.	21.	41.	107.	90.	25.
1.	0.	10.	2.	4.	1.	0.	0.	8.	28.	10.	16.	30.	136.	96.	14.
0.	1.	1.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
1.	2.	1.	1.	1.	0.	4.	2.	2.	0.	2.	1.	2.	0.	2.	2.
5.	3.	5.	4.	4.	5.	7.	3.	0.	6.	1.	2.	4.	0.	3.	0.
7.	9.	5.	5.	7.	5.	5.	5.	4.	0.	4.	3.	2.	1.	5.	2.
6.	10.	9.	8.	2.	11.	12.	6.	7.	8.	6.	6.	4.	4.	8.	4.
17.	25.	21.	23.	21.	19.	16.	18.	11.	11.	18.	8.	14.	12.	23.	18.
74.	78.	79.	63.	94.	116.	104.	54.	59.	54.	51.	44.	60.	64.	61.	56.











1.50	1.49	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
2.00	1.98	0.000	0.000	0.000	0.002	0.005	0.002	0.005	0.000	0.005	0.002	0.000	0.007	0.000	0.000	0.009	0.000	0.000	0.037
3.00	2.97	0.009	0.002	0.005	0.009	0.011	0.009	0.009	0.000	0.005	0.009	0.005	0.009	0.011	0.009	0.009	0.007	0.119	
4.00	3.97	0.023	0.018	0.011	0.032	0.075	0.075	0.057	0.011	0.009	0.021	0.034	0.025	0.032	0.041	0.025	0.018	0.510	
5.00	4.96	0.011	0.005	0.041	0.094	0.117	0.103	0.139	0.050	0.025	0.023	0.032	0.057	0.066	0.069	0.089	0.050	0.972	
6.00	5.95	0.027	0.007	0.071	0.160	0.080	0.048	0.114	0.112	0.071	0.027	0.011	0.080	0.105	0.091	0.119	0.048	1.173	
8.00	7.94	0.021	0.011	0.082	0.119	0.027	0.023	0.073	0.126	0.194	0.126	0.059	0.135	0.178	0.226	0.231	0.103	1.735	
10.00	9.92	0.002	0.002	0.064	0.032	0.002	0.000	0.002	0.011	0.064	0.080	0.043	0.048	0.094	0.245	0.206	0.057	0.953	
24.59	24.38	0.002	0.000	0.023	0.005	0.009	0.002	0.000	0.000	0.018	0.064	0.023	0.037	0.069	0.311	0.219	0.032	0.814	
TOTAL		0.10	0.05	0.30	0.45	0.33	0.26	0.40	0.31	0.39	0.35	0.21	0.40	0.56	0.99	0.91	0.32	6.32	

JOINT FREQUENCY DISTRIBUTION OF WIND SPEED AND DIRECTION  
WIND SPEED (M/S)

ATMOSPHERIC STABILITY CLASS D

TOWER RELEASE	N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	TOTAL
0.42	0.41	0.004	0.004	0.003	0.003	0.003	0.003	0.005	0.003	0.002	0.002	0.002	0.002	0.000	0.003	0.001	0.041
0.50	0.50	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	0.005
0.75	0.74	0.002	0.005	0.002	0.002	0.002	0.000	0.009	0.005	0.005	0.000	0.002	0.005	0.000	0.005	0.005	0.053
1.00	0.99	0.011	0.007	0.011	0.009	0.009	0.011	0.016	0.007	0.000	0.014	0.002	0.005	0.009	0.000	0.007	0.119
1.25	1.24	0.016	0.021	0.011	0.011	0.016	0.011	0.011	0.011	0.009	0.000	0.009	0.007	0.005	0.002	0.011	0.158
1.50	1.49	0.014	0.023	0.021	0.018	0.005	0.025	0.027	0.014	0.016	0.018	0.014	0.014	0.009	0.009	0.018	0.254
2.00	1.98	0.039	0.057	0.048	0.053	0.048	0.043	0.037	0.041	0.025	0.025	0.041	0.018	0.032	0.027	0.053	0.629
3.00	2.97	0.169	0.178	0.181	0.144	0.215	0.265	0.238	0.123	0.135	0.123	0.117	0.101	0.137	0.146	0.139	2.540
4.00	3.97	0.226	0.219	0.277	0.306	0.343	0.453	0.459	0.386	0.254	0.199	0.203	0.190	0.215	0.213	0.286	4.471
5.00	4.96	0.263	0.288	0.395	0.409	0.354	0.343	0.448	0.498	0.475	0.270	0.201	0.233	0.263	0.318	0.393	5.443
6.00	5.95	0.251	0.249	0.528	0.416	0.306	0.219	0.283	0.432	0.558	0.368	0.213	0.295	0.373	0.375	0.437	5.633
8.00	7.94	0.354	0.389	0.782	0.631	0.336	0.245	0.277	0.313	0.775	1.013	0.338	0.523	0.672	0.848	0.885	9.039
10.00	9.92	0.149	0.231	0.622	0.496	0.263	0.101	0.048	0.114	0.400	0.695	0.242	0.272	0.523	0.841	0.770	6.179
24.59	24.38	0.043	0.105	0.757	0.494	0.210	0.137	0.165	0.128	0.359	0.619	0.169	0.194	0.370	1.161	0.869	6.069
TOTAL		1.54	1.78	3.64	2.99	2.11	1.86	2.02	2.08	3.01	3.35	1.56	1.86	2.62	3.94	3.88	40.63

JOINT FREQUENCY DISTRIBUTION OF WIND SPEED AND DIRECTION  
WIND SPEED (M/S)

ATMOSPHERIC STABILITY CLASS E

TOWER RELEASE	N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	TOTAL
0.42	0.41	0.003	0.002	0.002	0.002	0.001	0.001	0.002	0.001	0.001	0.001	0.002	0.001	0.001	0.001	0.001	0.025
0.50	0.49	0.000	0.002	0.002	0.000	0.002	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.002	0.009
0.75	0.74	0.005	0.007	0.005	0.002	0.000	0.002	0.002	0.000	0.002	0.007	0.002	0.000	0.000	0.002	0.000	0.039
1.00	0.98	0.007	0.007	0.009	0.014	0.002	0.005	0.011	0.005	0.007	0.000	0.009	0.005	0.007	0.005	0.005	0.103
1.25	1.23	0.016	0.005	0.000	0.002	0.007	0.002	0.007	0.005	0.002	0.005	0.007	0.007	0.007	0.007	0.005	0.080
1.50	1.48	0.005	0.007	0.005	0.011	0.014	0.009	0.014	0.007	0.011	0.011	0.002	0.007	0.007	0.005	0.011	0.137
2.00	1.97	0.016	0.021	0.025	0.021	0.018	0.027	0.023	0.016	0.021	0.023	0.034	0.018	0.018	0.014	0.014	0.322
3.00	2.95	0.041	0.057	0.066	0.059	0.082	0.073	0.082	0.057	0.062	0.069	0.062	0.039	0.041	0.073	0.046	0.962
4.00	3.93	0.091	0.110	0.110	0.087	0.069	0.098	0.078	0.133	0.096	0.121	0.098	0.082	0.078	0.064	0.080	1.484
5.00	4.92	0.103	0.151	0.112	0.091	0.103	0.082	0.101	0.165	0.215	0.208	0.137	0.112	0.094	0.107	0.137	2.023
6.00	5.90	0.185	0.130	0.149	0.112	0.085	0.087	0.103	0.197	0.249	0.267	0.251	0.194	0.215	0.169	0.171	2.695
8.00	7.87	0.375	0.135	0.240	0.217	0.137	0.091	0.087	0.139	0.462	1.063	0.718	0.528	0.551	0.679	0.704	6.611
10.00	9.83	0.160	0.082	0.126	0.078	0.080	0.050	0.059	0.091	0.304	0.892	0.857	0.789	0.711	1.175	0.937	7.073
24.59	24.18	0.041	0.082	0.274	0.158	0.101	0.075	0.187	0.233	0.283	0.517	0.677	0.434	0.343	0.722	0.494	4.901
TOTAL		1.05	0.80	1.12	0.85	0.70	0.60	0.76	1.05	1.72	3.18	2.85	2.22	2.07	3.02	2.61	26.46

JOINT FREQUENCY DISTRIBUTION OF WIND SPEED AND DIRECTION  
WIND SPEED (M/S)

ATMOSPHERIC STABILITY CLASS F

TOWER RELEASE	N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	TOTAL
0.42	0.41	0.001	0.001	0.001	0.001	0.001	0.001	0.002	0.001	0.002	0.001	0.001	0.002	0.000	0.001	0.001	0.021
0.50	0.49	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.002	0.000	0.000	0.002	0.000	0.000	0.000	0.009

0.75	0.74	0.000	0.000	0.000	0.002	0.000	0.005	0.005	0.000	0.000	0.005	0.005	0.002	0.000	0.002	0.002	0.000	0.027
1.00	0.98	0.002	0.000	0.002	0.000	0.005	0.000	0.000	0.002	0.009	0.000	0.002	0.007	0.000	0.005	0.002	0.000	0.037
1.25	1.23	0.007	0.009	0.007	0.002	0.000	0.005	0.007	0.002	0.002	0.002	0.002	0.002	0.000	0.000	0.005	0.002	0.055
1.50	1.48	0.000	0.009	0.009	0.000	0.000	0.007	0.000	0.005	0.007	0.002	0.005	0.011	0.000	0.005	0.002	0.009	0.071
2.00	1.97	0.007	0.011	0.009	0.002	0.002	0.005	0.007	0.009	0.007	0.009	0.007	0.021	0.005	0.005	0.011	0.014	0.130
3.00	2.95	0.034	0.027	0.053	0.037	0.030	0.039	0.027	0.034	0.039	0.032	0.041	0.032	0.032	0.018	0.034	0.039	0.549
4.00	3.93	0.043	0.050	0.064	0.027	0.041	0.048	0.041	0.034	0.073	0.050	0.066	0.032	0.032	0.062	0.055	0.041	0.761
5.00	4.92	0.064	0.048	0.075	0.043	0.039	0.023	0.039	0.087	0.105	0.091	0.080	0.071	0.048	0.066	0.071	0.032	0.983
6.00	5.90	0.107	0.066	0.087	0.039	0.034	0.025	0.027	0.050	0.094	0.105	0.105	0.053	0.085	0.121	0.112	0.082	1.193
8.00	7.87	0.295	0.117	0.089	0.043	0.011	0.014	0.025	0.055	0.128	0.226	0.320	0.231	0.249	0.398	0.322	0.279	2.803
10.00	9.83	0.192	0.018	0.018	0.007	0.002	0.002	0.014	0.018	0.055	0.176	0.350	0.443	0.434	0.459	0.523	0.565	3.278
24.59	24.18	0.048	0.000	0.000	0.000	0.002	0.000	0.007	0.027	0.025	0.087	0.391	0.398	0.409	0.336	0.450	0.281	2.462
TOTAL		0.80	0.36	0.42	0.20	0.17	0.17	0.20	0.33	0.55	0.79	1.38	1.31	1.29	1.48	1.59	1.35	12.38

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	
0.42	0.41	0.004	0.003	0.006	0.003	0.003	0.001	0.002	0.002	0.004	0.002	0.006	0.003	0.003	0.002	0.001	0.003	0.048
0.50	0.49	0.000	0.000	0.000	0.002	0.000	0.000	0.000	0.000	0.000	0.002	0.002	0.000	0.000	0.000	0.000	0.002	0.009
0.75	0.74	0.000	0.000	0.000	0.002	0.002	0.000	0.000	0.002	0.007	0.000	0.000	0.002	0.000	0.000	0.002	0.002	0.018
1.00	0.98	0.007	0.005	0.009	0.002	0.002	0.000	0.005	0.000	0.002	0.002	0.016	0.007	0.005	0.002	0.002	0.005	0.071
1.25	1.23	0.007	0.007	0.011	0.005	0.005	0.005	0.002	0.005	0.007	0.002	0.002	0.005	0.005	0.005	0.002	0.002	0.075
1.50	1.48	0.007	0.005	0.002	0.011	0.005	0.009	0.005	0.005	0.002	0.005	0.018	0.007	0.007	0.005	0.002	0.005	0.098
2.00	1.97	0.021	0.014	0.025	0.009	0.011	0.021	0.007	0.002	0.025	0.021	0.023	0.009	0.023	0.014	0.011	0.009	0.245
3.00	2.95	0.064	0.055	0.050	0.037	0.037	0.059	0.043	0.037	0.066	0.062	0.055	0.032	0.064	0.064	0.037	0.037	0.798
4.00	3.93	0.066	0.055	0.046	0.050	0.039	0.062	0.043	0.080	0.075	0.059	0.087	0.059	0.075	0.055	0.071	0.064	0.988
5.00	4.92	0.085	0.057	0.073	0.030	0.043	0.048	0.039	0.059	0.101	0.094	0.082	0.089	0.098	0.094	0.101	0.085	1.177
6.00	5.90	0.112	0.039	0.075	0.041	0.050	0.025	0.041	0.021	0.098	0.073	0.110	0.089	0.117	0.119	0.146	0.075	1.232
8.00	7.87	0.213	0.091	0.080	0.039	0.021	0.007	0.016	0.034	0.069	0.130	0.165	0.185	0.281	0.290	0.281	0.201	2.103
10.00	9.83	0.137	0.023	0.005	0.005	0.002	0.002	0.000	0.005	0.030	0.055	0.130	0.224	0.238	0.231	0.206	0.167	1.458
24.59	24.18	0.021	0.002	0.002	0.000	0.000	0.000	0.000	0.000	0.002	0.025	0.059	0.231	0.208	0.151	0.057	0.032	0.791
TOTAL		0.74	0.36	0.39	0.24	0.22	0.24	0.20	0.25	0.49	0.53	0.76	0.94	1.13	1.03	0.92	0.69	9.11

WIND MEASURED AT 115.8 METERS.

WIND SPEED CORRECTED TO THE RELEASE HEIGHT OF 112.0 METERS.

OVERALL WIND DIRECTION FREQUENCY

WIND DIRECTION:	N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW
FREQUENCY:	4.3	3.4	6.2	5.2	3.7	3.3	3.8	4.3	6.5	8.5	6.9	7.0	8.1	11.3	10.7	6.8

OVERALL WIND SPEED FREQUENCY AS MEASURED ON THE TOWER:

MAX.WIND SPEED (M/S):	0.416	0.501	0.751	1.001	1.252	1.502	1.998	3.000	4.001	4.998	5.999	8.002	10.000	24.587
WIND SPEED FREQUENCY:	0.14	0.03	0.14	0.33	0.37	0.56	1.38	5.03	8.38	11.11	12.71	23.90	20.03	15.89

BUILDING AND RELEASE CHARACTERISTICS:

RELEASE HEIGHT: 112.00 METERS  
 MIXING VOLUME COEFFICIENT: 0.50  
 BUILDING CROSS-SECTIONAL AREA: 1913.00 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	414.	414.	414.	414.	414.	414.	414.	414.	414.	414.	414.	414.	414.	414.	414.	414.
BOUNDARY 2	3218.	3218.	3218.	3218.	3218.	3218.	3218.	3218.	3218.	3218.	3218.	3218.	3218.	3218.	3218.	3218.

DISTANCES AND TERRAIN HEIGHTS (IN METERS) AS A FUNCTION OF THE DOWNWIND SECTOR:

SECTOR	S	SSW	SW	WSW	W	WNW	NW	NNW	N	NNE	NE	ENE	E	ESE	SE	SSE
DISTANCE	414.	414.	414.	414.	414.	414.	414.	414.	414.	414.	414.	414.	414.	414.	414.	414.
ELEVATION	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
DISTANCE	3218.	3218.	3218.	3218.	3218.	3218.	3218.	3218.	3218.	3218.	3218.	3218.	3218.	3218.	3218.	3218.
ELEVATION	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.

THE CONVERSION FACTOR APPLIED TO THE WIND SPEED CLASSES IS 0.447

USNRC COMPUTER CODE-PAVAN, VERSION 2.0

RUN DATE: 03/14/07

PLANT NAME: Oyster Creek

METEOROLOGICAL INSTRUMENTATION

DATA PERIOD:

WIND SENSORS HEIGHT: 112 meters

TYPE OF RELEASE: Elevated Release

DELTA-T HEIGHTS: 10.1-115.8 meters

SOURCE OF DATA:

COMMENTS: Oyster Creek, Elevated Release, Stack, 1995-1999 met data

PROGRAM: PAVAN, 10/76, 8/79 REVISION, IMPLEMENTATION OF REGULATORY GUIDE 1.145

WINDSPEEDS ADJUSTED TO 112.0 METERS.

PERCENT OF THE TIME A GIVEN WINDSPEED IS LOWER:

WINDSPEED (METER/SEC)	CUMULATIVE FREQUENCY (PERCENT)
0.41	0.09
0.41	0.14
0.49	0.16
0.50	0.17
0.74	0.26
0.74	0.31
0.98	0.52
0.99	0.64
1.23	0.85
1.24	1.01
1.48	1.32
1.49	1.57
1.97	2.27
1.98	2.95
2.95	5.26
2.97	7.98
3.93	11.21
3.97	16.37
4.92	20.55
4.96	27.48
5.90	32.60
5.95	40.19
7.87	51.70
7.94	64.09
9.83	75.89
9.92	84.11
24.18	92.27
24.38	100.00

WINDSPEED (INTERPOLATED) (METER/SEC)	CUMULATIVE FREQUENCY (PERCENT)
0.41	0.14
0.49	0.17
0.74	0.31
0.99	0.64
1.24	1.01
1.48	1.57
1.97	2.95
2.96	7.98
3.96	16.37
4.94	27.48



5.93	40.19
7.90	64.09
9.87	84.11
24.28	100.00

LOG-NORMAL INTERPOLATION PERCENTILES

WINDSPEED (METER/SEC)	CUMULATIVE FREQUENCY (PERCENT)
1.23	1.00
1.99	3.00
2.42	5.00
3.22	10.00
3.81	15.00
4.29	20.00
4.72	25.00
5.13	30.00
5.52	35.00
5.91	40.00
6.28	45.00
6.67	50.00
7.07	55.00
7.51	60.00
7.97	65.00
8.37	70.00
8.82	75.00
9.34	80.00

USNRC COMPUTER CODE-PAVAN, VERSION 2.0

RUN DATE: 03/14/07

PLANT NAME: Oyster Creek

METEOROLOGICAL INSTRUMENTATION

DATA PERIOD:

WIND SENSORS HEIGHT: 112 meters

TYPE OF RELEASE: Elevated Release

DELTA-T HEIGHTS: 10.1-115.8 meters

SOURCE OF DATA:

COMMENTS: Oyster Creek, Elevated Release, Stack, 1995-1999 met data

PROGRAM: PAVAN, 10/76, 8/79 REVISION, IMPLEMENTATION OF REGULATORY GUIDE 1.145

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

CLASS	METER/SEC	PERCENT	METERS	METERS	METERS	SIGMA-Y METERS	SIGMA-Z METERS	MEANDER-SY METERS	** CHI/Q-VALUES (SEC/CUBIC METER)			
									MEANDER	BLDG WAKE	USED	
STABILITY WINDSPEED FREQUENCY DISTANCE TERRAIN HT EFF PLUME HT												
AT 112.0 METERS												
CA= 957.SQ.METERS												
A	3.0	0.05	414.	0.	112.	84.5	88.5	0.0	0.000E+00	0.000E+00	6.429E-06	
A	4.0	0.05	414.	0.	112.	84.5	88.5	0.0	0.000E+00	0.000E+00	4.820E-06	
A	5.0	0.05	414.	0.	112.	84.5	88.5	0.0	0.000E+00	0.000E+00	3.859E-06	
A	7.9	0.11	414.	0.	112.	84.5	88.5	0.0	0.000E+00	0.000E+00	2.410E-06	
B	0.4	0.00	800.	0.	112.	115.2	86.0	0.0	0.000E+00	0.000E+00	3.340E-05	
B	3.0	0.05	800.	0.	112.	115.2	86.0	0.0	0.000E+00	0.000E+00	4.629E-06	
B	4.0	0.27	800.	0.	112.	115.2	86.0	0.0	0.000E+00	0.000E+00	3.470E-06	
B	5.0	0.16	800.	0.	112.	115.2	86.0	0.0	0.000E+00	0.000E+00	2.778E-06	
B	5.9	0.37	800.	0.	112.	115.2	86.0	0.0	0.000E+00	0.000E+00	2.314E-06	
B	7.9	0.27	800.	0.	112.	115.2	86.0	0.0	0.000E+00	0.000E+00	1.735E-06	
B	9.9	0.11	800.	0.	112.	115.2	86.0	0.0	0.000E+00	0.000E+00	1.388E-06	
C	3.0	0.21	1000.	0.	112.	107.0	61.1	0.0	0.000E+00	0.000E+00	3.052E-06	
C	4.0	0.53	1000.	0.	112.	107.0	61.1	0.0	0.000E+00	0.000E+00	2.288E-06	
C	5.0	0.27	1000.	0.	112.	107.0	61.1	0.0	0.000E+00	0.000E+00	1.832E-06	
C	5.9	0.64	1000.	0.	112.	107.0	61.1	0.0	0.000E+00	0.000E+00	1.526E-06	
C	7.9	0.48	1000.	0.	112.	107.0	61.1	0.0	0.000E+00	0.000E+00	1.144E-06	
C	9.9	0.05	1000.	0.	112.	107.0	61.1	0.0	0.000E+00	0.000E+00	9.154E-07	
C	24.4	0.05	1000.	0.	112.	107.0	61.1	0.0	0.000E+00	0.000E+00	3.723E-07	
D	0.4	0.09	3000.	0.	112.	203.1	65.4	0.0	0.000E+00	0.000E+00	1.343E-05	
D	0.7	0.05	3000.	0.	112.	203.1	65.4	0.0	0.000E+00	0.000E+00	7.433E-06	
D	1.0	0.27	3000.	0.	112.	203.1	65.4	0.0	0.000E+00	0.000E+00	5.575E-06	
D	1.2	0.37	3000.	0.	112.	203.1	65.4	0.0	0.000E+00	0.000E+00	4.460E-06	
D	1.5	0.32	3000.	0.	112.	203.1	65.4	0.0	0.000E+00	0.000E+00	3.717E-06	
D	2.0	0.91	3000.	0.	112.	203.1	65.4	0.0	0.000E+00	0.000E+00	2.794E-06	
D	3.0	3.94	3000.	0.	112.	203.1	65.4	0.0	0.000E+00	0.000E+00	1.861E-06	
D	4.0	5.27	3000.	0.	112.	203.1	65.4	0.0	0.000E+00	0.000E+00	1.395E-06	
D	5.0	6.12	3000.	0.	112.	203.1	65.4	0.0	0.000E+00	0.000E+00	1.117E-06	
D	5.9	5.86	3000.	0.	112.	203.1	65.4	0.0	0.000E+00	0.000E+00	9.305E-07	
D	7.9	8.25	3000.	0.	112.	203.1	65.4	0.0	0.000E+00	0.000E+00	6.976E-07	
D	9.9	3.46	3000.	0.	112.	203.1	65.4	0.0	0.000E+00	0.000E+00	5.582E-07	
D	24.4	1.01	3000.	0.	112.	203.1	65.4	0.0	0.000E+00	0.000E+00	2.270E-07	
E	0.4	0.07	7000.	0.	112.	310.5	66.2	0.0	0.000E+00	0.000E+00	9.048E-06	
E	0.7	0.11	7000.	0.	112.	310.5	66.2	0.0	0.000E+00	0.000E+00	5.009E-06	
E	1.0	0.16	7000.	0.	112.	310.5	66.2	0.0	0.000E+00	0.000E+00	3.756E-06	
E	1.2	0.37	7000.	0.	112.	310.5	66.2	0.0	0.000E+00	0.000E+00	3.005E-06	
E	1.5	0.11	7000.	0.	112.	310.5	66.2	0.0	0.000E+00	0.000E+00	2.504E-06	
E	2.0	0.37	7000.	0.	112.	310.5	66.2	0.0	0.000E+00	0.000E+00	1.882E-06	
E	3.0	0.96	7000.	0.	112.	310.5	66.2	0.0	0.000E+00	0.000E+00	1.254E-06	
E	3.9	2.13	7000.	0.	112.	310.5	66.2	0.0	0.000E+00	0.000E+00	9.402E-07	

E	4.9	2.40	7000.	0.	112.	310.5	66.2	0.0	0.000E+00	0.000E+00	7.526E-07
E	5.9	4.31	7000.	0.	112.	310.5	66.2	0.0	0.000E+00	0.000E+00	6.270E-07
E	7.9	8.73	7000.	0.	112.	310.5	66.2	0.0	0.000E+00	0.000E+00	4.701E-07
E	9.8	3.73	7000.	0.	112.	310.5	66.2	0.0	0.000E+00	0.000E+00	3.761E-07
E	24.2	0.96	7000.	0.	112.	310.5	66.2	0.0	0.000E+00	0.000E+00	1.530E-07
F	0.4	0.03	90000.	0.	112.	1000.0	92.1	0.0	0.000E+00	0.000E+00	4.035E-06
F	1.0	0.05	90000.	0.	112.	1000.0	92.1	0.0	0.000E+00	0.000E+00	1.675E-06
F	1.2	0.16	90000.	0.	112.	1000.0	92.1	0.0	0.000E+00	0.000E+00	1.340E-06
F	2.0	0.16	90000.	0.	112.	1000.0	92.1	0.0	0.000E+00	0.000E+00	8.395E-07
F	3.0	0.80	90000.	0.	112.	1000.0	92.1	0.0	0.000E+00	0.000E+00	5.592E-07
F	3.9	1.01	90000.	0.	112.	1000.0	92.1	0.0	0.000E+00	0.000E+00	4.193E-07
F	4.9	1.49	90000.	0.	112.	1000.0	92.1	0.0	0.000E+00	0.000E+00	3.356E-07
F	5.9	2.50	90000.	0.	112.	1000.0	92.1	0.0	0.000E+00	0.000E+00	2.796E-07
F	7.9	6.87	90000.	0.	112.	1000.0	92.1	0.0	0.000E+00	0.000E+00	2.096E-07
F	9.8	4.47	90000.	0.	112.	1000.0	92.1	0.0	0.000E+00	0.000E+00	1.677E-07
F	24.2	1.12	90000.	0.	112.	1000.0	92.1	0.0	0.000E+00	0.000E+00	6.823E-08
G	0.4	0.09	90000.	0.	112.	1000.0	46.0	0.0	0.000E+00	0.000E+00	8.741E-07
G	1.0	0.16	90000.	0.	112.	1000.0	46.0	0.0	0.000E+00	0.000E+00	3.629E-07
G	1.2	0.16	90000.	0.	112.	1000.0	46.0	0.0	0.000E+00	0.000E+00	2.903E-07
G	1.5	0.16	90000.	0.	112.	1000.0	46.0	0.0	0.000E+00	0.000E+00	2.419E-07
G	2.0	0.48	90000.	0.	112.	1000.0	46.0	0.0	0.000E+00	0.000E+00	1.819E-07
G	3.0	1.49	90000.	0.	112.	1000.0	46.0	0.0	0.000E+00	0.000E+00	1.211E-07
G	3.9	1.54	90000.	0.	112.	1000.0	46.0	0.0	0.000E+00	0.000E+00	9.083E-08
G	4.9	1.97	90000.	0.	112.	1000.0	46.0	0.0	0.000E+00	0.000E+00	7.271E-08
G	5.9	2.61	90000.	0.	112.	1000.0	46.0	0.0	0.000E+00	0.000E+00	6.057E-08
G	7.9	4.95	90000.	0.	112.	1000.0	46.0	0.0	0.000E+00	0.000E+00	4.541E-08
G	9.8	3.19	90000.	0.	112.	1000.0	46.0	0.0	0.000E+00	0.000E+00	3.634E-08
G	24.2	0.48	90000.	0.	112.	1000.0	46.0	0.0	0.000E+00	0.000E+00	1.478E-08

USNRC COMPUTER CODE-PAVAN, VERSION 2.0

RUN DATE: 03/14/07

PLANT NAME: Oyster Creek  
 DATA PERIOD:  
 TYPE OF RELEASE: Elevated Release  
 SOURCE OF DATA:  
 COMMENTS: Oyster Creek, Elevated Release, Stack, 1995-1999 met data  
 PROGRAM: PAVAN, 10/76, 8/79 REVISION, IMPLEMENTATION OF REGULATORY GUIDE 1.145

METEOROLOGICAL INSTRUMENTATION  
 WIND SENSORS HEIGHT: 112 meters  
 DELTA-T HEIGHTS: 10.1-115.8 meters

SITE EXCLUSION BOUNDARY CALCULATIONS:

S SECTOR BOUNDARY DISTANCE = 414.0 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.

3.340E-05	1.343E-05	9.048E-06	7.433E-06	6.429E-06	5.575E-06	5.009E-06	4.820E-06	4.629E-06	4.460E-06
0.003	0.089	0.158	0.211	0.265	0.531	0.637	0.691	0.744	1.117
0.00014	0.00381	0.00679	0.00908	0.01137	0.02280	0.02737	0.02965	0.03194	0.04794
4.035E-06	3.859E-06	3.756E-06	3.717E-06	3.470E-06	3.052E-06	3.005E-06	2.794E-06	2.778E-06	2.504E-06
1.151	1.204	1.364	1.683	1.949	2.162	2.535	3.440	3.600	3.706
0.04941	0.05170	0.05856	0.07227	0.08370	0.09284	0.10885	0.14771	0.15457	0.15914
2.410E-06	2.314E-06	2.288E-06	1.882E-06	1.861E-06	1.832E-06	1.735E-06	1.675E-06	1.526E-06	1.395E-06
3.813	4.185	4.718	5.091	9.030	9.297	9.563	9.616	10.255	15.526
0.16371	0.17971	0.20257	0.21857	0.38774	0.39917	0.41060	0.41288	0.44031	0.66662
1.388E-06	1.340E-06	1.254E-06	1.144E-06	1.117E-06	9.402E-07	9.305E-07	9.154E-07	8.741E-07	8.395E-07
15.632	15.792	16.750	17.229	23.352	25.482	31.338	31.391	31.480	31.639
0.67120	0.67805	0.71920	0.73978	1.00266	1.09410	1.34556	1.34785	1.35164	1.35849
7.526E-07	6.976E-07	6.270E-07	5.592E-07	5.582E-07	4.701E-07	4.193E-07	3.761E-07	3.723E-07	3.629E-07
34.035	42.287	46.600	47.398	50.859	59.591	60.602	64.329	64.382	64.542
1.46136	1.81569	2.00085	2.03514	2.18373	2.55863	2.60206	2.76208	2.76437	2.77123
3.356E-07	2.903E-07	2.796E-07	2.419E-07	2.270E-07	2.096E-07	1.819E-07	1.677E-07	1.530E-07	1.211E-07
66.033	66.192	68.695	68.854	69.866	76.734	77.213	81.685	82.644	84.134
2.83523	2.84209	2.94953	2.95639	2.99982	3.29471	3.31529	3.50731	3.54846	3.61247
9.083E-08	7.271E-08	6.823E-08	6.057E-08	4.541E-08	3.634E-08	1.478E-08			
85.678	87.648	88.766	91.375	96.326	99.521	100.000			
3.67876	3.76334	3.81135	3.92336	4.13595	4.27311	4.29369			

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 = 3.340E-05 DISTANCE = 800.000

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)= 0.004  
 HANDCHECK GRAPH: SLOPE LT -1.0 FOR LOW PERCENTAGES. XSAVE ( 3)= 0.048  
 HANDCHECK GRAPH: SLOPE LT -1.0 FOR LOW PERCENTAGES. XSAVE ( 4)= 0.154  
 HANDCHECK GRAPH: SLOPE LT -1.0 FOR LOW PERCENTAGES. XSAVE ( 5)= 0.387  
 HANDCHECK GRAPH: SLOPE LT -1.0 FOR LOW PERCENTAGES. XSAVE ( 6)= 0.666  
 HANDCHECK GRAPH: SLOPE LT -1.0 FOR LOW PERCENTAGES. XSAVE ( 7)= 1.001  
 HANDCHECK GRAPH: SLOPE LT -1.0 FOR LOW PERCENTAGES. XSAVE ( 8)= 1.344

K	I	XQSAVE (K,I)	XQINT (K,I)	XQSLOP (K,I)
1	1	-10.30702	-16.19491	-1.25792
1	2	-11.21821	-17.88854	-1.68600
1	3	-12.32040	-16.86798	-1.37698
1	4	-12.79371	-16.80049	-1.35417
1	5	-13.19438	-17.27949	-1.53405
1	6	-13.48243	-17.16833	-1.48914
1	7	-13.70491	-17.47895	-1.62269
1	8	-13.88753	NUMXQ (K) = 8	
		4.697E-06	0.043	1.000
		3.000E-06	0.129	3.000
		2.417E-06	0.215	5.000
		1.765E-06	0.429	10.000
		1.422E-06	0.644	15.000
		1.217E-06	0.859	20.000
		1.071E-06	1.073	25.000
		9.565E-07	1.288	30.000
		1.629E-06	0.5	11.65

ANNUAL AVERAGE = 1.09E-09

K= 1 FIVEXQ (K)= 1.629E-06 FIVEPR (K)=11.645

FUMIGATION X/Q AT THE BOUNDARY: 1.07E-04

EXPONENTIAL TERM AND FREQUENCIES

4.773E-01	4.493E-01	4.286E-01	2.388E-01	2.312E-01	1.864E-01	5.166E-02
18.668	18.935	20.162	44.563	80.479	82.715	100.000

USNRC COMPUTER CODE-PAVAN, VERSION 2.0

RUN DATE: 03/14/07

PLANT NAME: Oyster Creek

METEOROLOGICAL INSTRUMENTATION

DATA PERIOD:

WIND SENSORS HEIGHT: 112 meters

TYPE OF RELEASE: Elevated Release

DELTA-T HEIGHTS: 10.1-115.8 meters

SOURCE OF DATA:

COMMENTS: Oyster Creek, Elevated Release, Stack, 1995-1999 met data

PROGRAM: PAVAN, 10/76, 8/79 REVISION, IMPLEMENTATION OF REGULATORY GUIDE 1.145

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

CLASS	METER/SEC	PERCENT	METERS	METERS	METERS	SIGMA-Y	SIGMA-Z	MEANDER-SY	** CHI/Q VALUES (SEC/CUBIC METER)		
									MEANDER	BLDG WAKE	USED
AT 112.0 METERS											
A	4.0	0.07	414.	0.	112.	84.5	88.5	0.0	0.000E+00	0.000E+00	4.820E-06
A	5.0	0.07	414.	0.	112.	84.5	88.5	0.0	0.000E+00	0.000E+00	3.859E-06
A	5.9	0.14	414.	0.	112.	84.5	88.5	0.0	0.000E+00	0.000E+00	3.215E-06
A	7.9	0.20	414.	0.	112.	84.5	88.5	0.0	0.000E+00	0.000E+00	2.410E-06
A	9.9	0.07	414.	0.	112.	84.5	88.5	0.0	0.000E+00	0.000E+00	1.928E-06
B	0.4	0.00	800.	0.	112.	115.2	86.0	0.0	0.000E+00	0.000E+00	3.340E-05
B	3.0	0.14	800.	0.	112.	115.2	86.0	0.0	0.000E+00	0.000E+00	4.629E-06
B	5.0	0.07	800.	0.	112.	115.2	86.0	0.0	0.000E+00	0.000E+00	2.778E-06
B	5.9	0.20	800.	0.	112.	115.2	86.0	0.0	0.000E+00	0.000E+00	2.314E-06
B	9.9	0.20	800.	0.	112.	115.2	86.0	0.0	0.000E+00	0.000E+00	1.388E-06
C	3.0	0.07	1000.	0.	112.	107.0	61.1	0.0	0.000E+00	0.000E+00	3.052E-06
C	4.0	0.54	1000.	0.	112.	107.0	61.1	0.0	0.000E+00	0.000E+00	2.288E-06
C	5.0	0.14	1000.	0.	112.	107.0	61.1	0.0	0.000E+00	0.000E+00	1.832E-06
C	5.9	0.20	1000.	0.	112.	107.0	61.1	0.0	0.000E+00	0.000E+00	1.526E-06
C	7.9	0.34	1000.	0.	112.	107.0	61.1	0.0	0.000E+00	0.000E+00	1.144E-06
C	9.9	0.07	1000.	0.	112.	107.0	61.1	0.0	0.000E+00	0.000E+00	9.154E-07
D	0.4	0.13	3000.	0.	112.	203.1	65.4	0.0	0.000E+00	0.000E+00	1.343E-05
D	0.5	0.07	3000.	0.	112.	203.1	65.4	0.0	0.000E+00	0.000E+00	1.115E-05
D	0.7	0.14	3000.	0.	112.	203.1	65.4	0.0	0.000E+00	0.000E+00	7.433E-06
D	1.0	0.20	3000.	0.	112.	203.1	65.4	0.0	0.000E+00	0.000E+00	5.575E-06
D	1.2	0.61	3000.	0.	112.	203.1	65.4	0.0	0.000E+00	0.000E+00	4.460E-06
D	1.5	0.68	3000.	0.	112.	203.1	65.4	0.0	0.000E+00	0.000E+00	3.717E-06
D	2.0	1.69	3000.	0.	112.	203.1	65.4	0.0	0.000E+00	0.000E+00	2.794E-06
D	3.0	5.28	3000.	0.	112.	203.1	65.4	0.0	0.000E+00	0.000E+00	1.861E-06
D	4.0	6.50	3000.	0.	112.	203.1	65.4	0.0	0.000E+00	0.000E+00	1.395E-06
D	5.0	8.54	3000.	0.	112.	203.1	65.4	0.0	0.000E+00	0.000E+00	1.117E-06
D	5.9	7.39	3000.	0.	112.	203.1	65.4	0.0	0.000E+00	0.000E+00	9.305E-07
D	7.9	11.52	3000.	0.	112.	203.1	65.4	0.0	0.000E+00	0.000E+00	6.976E-07
D	9.9	6.84	3000.	0.	112.	203.1	65.4	0.0	0.000E+00	0.000E+00	5.582E-07
D	24.4	3.12	3000.	0.	112.	203.1	65.4	0.0	0.000E+00	0.000E+00	2.270E-07
E	0.4	0.07	7000.	0.	112.	310.5	66.2	0.0	0.000E+00	0.000E+00	9.048E-06
E	0.5	0.07	7000.	0.	112.	310.5	66.2	0.0	0.000E+00	0.000E+00	7.513E-06
E	0.7	0.20	7000.	0.	112.	310.5	66.2	0.0	0.000E+00	0.000E+00	5.009E-06
E	1.0	0.20	7000.	0.	112.	310.5	66.2	0.0	0.000E+00	0.000E+00	3.756E-06
E	1.2	0.14	7000.	0.	112.	310.5	66.2	0.0	0.000E+00	0.000E+00	3.005E-06
E	1.5	0.20	7000.	0.	112.	310.5	66.2	0.0	0.000E+00	0.000E+00	2.504E-06
E	2.0	0.61	7000.	0.	112.	310.5	66.2	0.0	0.000E+00	0.000E+00	1.882E-06
E	3.0	1.69	7000.	0.	112.	310.5	66.2	0.0	0.000E+00	0.000E+00	1.254E-06
E	3.9	3.25	7000.	0.	112.	310.5	66.2	0.0	0.000E+00	0.000E+00	9.402E-07

CA= 957.SQ.METERS

E	4.9	4.47	7000.	0.	112.	310.5	66.2	0.0	0.000E+00	0.000E+00	7.526E-07
E	5.9	3.86	7000.	0.	112.	310.5	66.2	0.0	0.000E+00	0.000E+00	6.270E-07
E	7.9	4.00	7000.	0.	112.	310.5	66.2	0.0	0.000E+00	0.000E+00	4.701E-07
E	9.8	2.44	7000.	0.	112.	310.5	66.2	0.0	0.000E+00	0.000E+00	3.761E-07
E	24.2	2.44	7000.	0.	112.	310.5	66.2	0.0	0.000E+00	0.000E+00	1.530E-07
F	0.4	0.04	90000.	0.	112.	1000.0	92.1	0.0	0.000E+00	0.000E+00	4.035E-06
F	1.2	0.27	90000.	0.	112.	1000.0	92.1	0.0	0.000E+00	0.000E+00	1.340E-06
F	1.5	0.27	90000.	0.	112.	1000.0	92.1	0.0	0.000E+00	0.000E+00	1.117E-06
F	2.0	0.34	90000.	0.	112.	1000.0	92.1	0.0	0.000E+00	0.000E+00	8.395E-07
F	3.0	0.81	90000.	0.	112.	1000.0	92.1	0.0	0.000E+00	0.000E+00	5.592E-07
F	3.9	1.49	90000.	0.	112.	1000.0	92.1	0.0	0.000E+00	0.000E+00	4.193E-07
F	4.9	1.42	90000.	0.	112.	1000.0	92.1	0.0	0.000E+00	0.000E+00	3.356E-07
F	5.9	1.96	90000.	0.	112.	1000.0	92.1	0.0	0.000E+00	0.000E+00	2.796E-07
F	7.9	3.46	90000.	0.	112.	1000.0	92.1	0.0	0.000E+00	0.000E+00	2.096E-07
F	9.8	0.54	90000.	0.	112.	1000.0	92.1	0.0	0.000E+00	0.000E+00	1.677E-07
G	0.4	0.09	90000.	0.	112.	1000.0	46.0	0.0	0.000E+00	0.000E+00	8.741E-07
G	1.0	0.14	90000.	0.	112.	1000.0	46.0	0.0	0.000E+00	0.000E+00	3.629E-07
G	1.2	0.20	90000.	0.	112.	1000.0	46.0	0.0	0.000E+00	0.000E+00	2.903E-07
G	1.5	0.14	90000.	0.	112.	1000.0	46.0	0.0	0.000E+00	0.000E+00	2.419E-07
G	2.0	0.41	90000.	0.	112.	1000.0	46.0	0.0	0.000E+00	0.000E+00	1.819E-07
G	3.0	1.63	90000.	0.	112.	1000.0	46.0	0.0	0.000E+00	0.000E+00	1.211E-07
G	3.9	1.63	90000.	0.	112.	1000.0	46.0	0.0	0.000E+00	0.000E+00	9.083E-08
G	4.9	1.69	90000.	0.	112.	1000.0	46.0	0.0	0.000E+00	0.000E+00	7.271E-08
G	5.9	1.15	90000.	0.	112.	1000.0	46.0	0.0	0.000E+00	0.000E+00	6.057E-08
G	7.9	2.71	90000.	0.	112.	1000.0	46.0	0.0	0.000E+00	0.000E+00	4.541E-08
G	9.8	0.68	90000.	0.	112.	1000.0	46.0	0.0	0.000E+00	0.000E+00	3.634E-08
G	24.2	0.07	90000.	0.	112.	1000.0	46.0	0.0	0.000E+00	0.000E+00	1.478E-08

USNRC COMPUTER CODE-PAVAN, VERSION 2.0

RUN DATE: 03/14/07

PLANT NAME: Oyster Creek

METEOROLOGICAL INSTRUMENTATION

DATA PERIOD:

WIND SENSORS HEIGHT: 112 meters

TYPE OF RELEASE: Elevated Release

DELTA-T HEIGHTS: 10.1-115.8 meters

SOURCE OF DATA:

COMMENTS: Oyster Creek, Elevated Release, Stack, 1995-1999 met data

PROGRAM: PAVAN, 10/76, 8/79 REVISION, IMPLEMENTATION OF REGULATORY GUIDE 1.145

SITE EXCLUSION BOUNDARY CALCULATIONS:

SSW SECTOR BOUNDARY DISTANCE = 414.0 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.

3.340E-05	1.343E-05	1.115E-05	9.048E-06	7.513E-06	7.433E-06	5.575E-06	5.009E-06	4.820E-06	4.629E-06
0.004	0.130	0.197	0.264	0.331	0.467	0.670	0.873	0.941	1.077
0.00014	0.00437	0.00666	0.00890	0.01118	0.01575	0.02261	0.02947	0.03176	0.03633
4.460E-06	4.035E-06	3.859E-06	3.756E-06	3.717E-06	3.215E-06	3.052E-06	3.005E-06	2.794E-06	2.778E-06
1.687	1.730	1.798	2.001	2.679	2.814	2.882	3.017	4.711	4.779
0.05690	0.05837	0.06066	0.06752	0.09038	0.09495	0.09723	0.10181	0.15896	0.16124
2.504E-06	2.410E-06	2.314E-06	2.288E-06	1.928E-06	1.882E-06	1.861E-06	1.832E-06	1.526E-06	1.395E-06
4.982	5.186	5.389	5.931	5.999	6.608	11.893	12.029	12.232	18.736
0.16810	0.17496	0.18181	0.20010	0.20239	0.22296	0.40127	0.40584	0.41270	0.63215
1.388E-06	1.340E-06	1.254E-06	1.144E-06	1.117E-06	1.117E-06	9.402E-07	9.305E-07	9.154E-07	8.741E-07
18.940	19.211	20.905	21.243	29.780	30.051	33.304	40.689	40.757	40.850
0.63901	0.64815	0.70530	0.71673	1.00477	1.01391	1.12364	1.37281	1.37509	1.37825
8.395E-07	7.526E-07	6.976E-07	6.270E-07	5.592E-07	5.582E-07	4.701E-07	4.193E-07	3.761E-07	3.629E-07
41.189	45.661	57.179	61.041	61.854	68.697	72.695	74.186	76.625	76.760
1.38968	1.54056	1.92917	2.05947	2.08690	2.31779	2.45266	2.50295	2.58525	2.58982
3.356E-07	2.903E-07	2.796E-07	2.419E-07	2.270E-07	2.096E-07	1.819E-07	1.677E-07	1.530E-07	1.211E-07
78.183	78.386	80.351	80.487	83.603	87.059	87.465	88.007	90.447	92.073
2.63782	2.64468	2.71098	2.71555	2.82070	2.93729	2.95100	2.96929	3.05159	3.10645
9.083E-08	7.271E-08	6.057E-08	4.541E-08	3.634E-08	1.478E-08				
93.699	95.393	96.545	99.255	99.932	100.000				
3.16131	3.21846	3.25732	3.34876	3.37162	3.37391				

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 = 3.340E-05 DISTANCE = 800.000

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)= 0.004  
 HANDCHECK GRAPH: SLOPE LT -1.0 FOR LOW PERCENTAGES. XSAVE ( 3)= 0.057  
 HANDCHECK GRAPH: SLOPE LT -1.0 FOR LOW PERCENTAGES. XSAVE ( 4)= 0.090  
 HANDCHECK GRAPH: SLOPE LT -1.0 FOR LOW PERCENTAGES. XSAVE ( 5)= 0.161  
 HANDCHECK GRAPH: SLOPE LT -1.0 FOR LOW PERCENTAGES. XSAVE ( 6)= 0.401  
 HANDCHECK GRAPH: SLOPE LT -1.0 FOR LOW PERCENTAGES. XSAVE ( 7)= 1.013  
 HANDCHECK GRAPH: SLOPE LT -1.0 FOR LOW PERCENTAGES. XSAVE ( 8)= 1.371

K	I	XQSAVE(K,I)	XQINT(K,I)	XQSLOP(K,I)
2	1	-10.30702	-15.93748	-1.20292
2	2	-11.21821	-17.68208	-1.64761
2	3	-12.32040	-16.75578	-1.36297
2	4	-12.50272	-17.70145	-1.66602
2	5	-12.79371	-16.80297	-1.36102
2	6	-13.19438	-17.29963	-1.54834
2	7	-13.70502	-17.35196	-1.57088
2	8	-13.88753	NUMXQ(K)= 8	
		5.669E-06	0.034	1.000
		3.515E-06	0.101	3.000
		2.726E-06	0.169	5.000
		2.014E-06	0.337	10.000
		1.646E-06	0.506	15.000
		1.407E-06	0.675	20.000
		1.242E-06	0.843	25.000
		1.118E-06	1.012	30.000
		1.020E-06	1.181	35.000
		9.403E-07	1.350	40.000
		1.657E-06	0.5	14.82

ANNUAL AVERAGE = 9.87E-10

K= 2 FIVEXQ(K)= 1.657E-06 FIVEPR(K)=14.820

FUMIGATION X/Q AT THE BOUNDARY: 1.07E-04

EXPONENTIAL TERM AND FREQUENCIES

4.773E-01	4.493E-01	4.286E-01	2.388E-01	2.312E-01	1.864E-01	5.166E-02
10.613	11.155	11.769	35.414	88.117	89.472	100.000

USNRC COMPUTER CODE-PAVAN, VERSION 2.0

RUN DATE: 03/14/07

PLANT NAME: Oyster Creek

METEOROLOGICAL INSTRUMENTATION

DATA PERIOD:

WIND SENSORS HEIGHT: 112 meters

TYPE OF RELEASE: Elevated Release

DELTA-T HEIGHTS: 10.1-115.8 meters

SOURCE OF DATA:

COMMENTS: Oyster Creek, Elevated Release, Stack, 1995-1999 met data

PROGRAM: PAVAN, 10/76, 8/79 REVISION, IMPLEMENTATION OF REGULATORY GUIDE 1.145

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

CLASS	METER/SEC	PERCENT	METERS	METERS	METERS	SIGMA-Y METERS	SIGMA-Z METERS	MEANDER-SY METERS	** CHI/Q VALUES (SEC/CUBIC METER)		
									MEANDER	BLDG WAKE	USED
AT 112.0 METERS											
A	3.0	0.11	414.	0.	112.	84.5	88.5	0.0	0.000E+00	0.000E+00	6.429E-06
A	5.0	0.07	414.	0.	112.	84.5	88.5	0.0	0.000E+00	0.000E+00	3.859E-06
A	5.9	0.19	414.	0.	112.	84.5	88.5	0.0	0.000E+00	0.000E+00	3.215E-06
A	7.9	0.82	414.	0.	112.	84.5	88.5	0.0	0.000E+00	0.000E+00	2.410E-06
A	9.9	0.44	414.	0.	112.	84.5	88.5	0.0	0.000E+00	0.000E+00	1.928E-06
A	24.4	0.11	414.	0.	112.	84.5	88.5	0.0	0.000E+00	0.000E+00	7.844E-07
CA= 957.SQ.METERS											
B	0.4	0.00	800.	0.	112.	115.2	86.0	0.0	0.000E+00	0.000E+00	3.340E-05
B	4.0	0.11	800.	0.	112.	115.2	86.0	0.0	0.000E+00	0.000E+00	3.470E-06
B	5.0	0.30	800.	0.	112.	115.2	86.0	0.0	0.000E+00	0.000E+00	2.778E-06
B	5.9	0.56	800.	0.	112.	115.2	86.0	0.0	0.000E+00	0.000E+00	2.314E-06
B	7.9	1.59	800.	0.	112.	115.2	86.0	0.0	0.000E+00	0.000E+00	1.735E-06
B	9.9	0.41	800.	0.	112.	115.2	86.0	0.0	0.000E+00	0.000E+00	1.388E-06
B	24.4	0.22	800.	0.	112.	115.2	86.0	0.0	0.000E+00	0.000E+00	5.647E-07
C	0.7	0.04	1000.	0.	112.	107.0	61.1	0.0	0.000E+00	0.000E+00	1.219E-05
C	3.0	0.07	1000.	0.	112.	107.0	61.1	0.0	0.000E+00	0.000E+00	3.052E-06
C	4.0	0.19	1000.	0.	112.	107.0	61.1	0.0	0.000E+00	0.000E+00	2.288E-06
C	5.0	0.67	1000.	0.	112.	107.0	61.1	0.0	0.000E+00	0.000E+00	1.832E-06
C	5.9	1.15	1000.	0.	112.	107.0	61.1	0.0	0.000E+00	0.000E+00	1.526E-06
C	7.9	1.33	1000.	0.	112.	107.0	61.1	0.0	0.000E+00	0.000E+00	1.144E-06
C	9.9	1.04	1000.	0.	112.	107.0	61.1	0.0	0.000E+00	0.000E+00	9.154E-07
C	24.4	0.37	1000.	0.	112.	107.0	61.1	0.0	0.000E+00	0.000E+00	3.723E-07
D	0.4	0.05	3000.	0.	112.	203.1	65.4	0.0	0.000E+00	0.000E+00	1.343E-05
D	0.5	0.04	3000.	0.	112.	203.1	65.4	0.0	0.000E+00	0.000E+00	1.115E-05
D	0.7	0.04	3000.	0.	112.	203.1	65.4	0.0	0.000E+00	0.000E+00	7.433E-06
D	1.0	0.19	3000.	0.	112.	203.1	65.4	0.0	0.000E+00	0.000E+00	5.575E-06
D	1.2	0.19	3000.	0.	112.	203.1	65.4	0.0	0.000E+00	0.000E+00	4.460E-06
D	1.5	0.33	3000.	0.	112.	203.1	65.4	0.0	0.000E+00	0.000E+00	3.717E-06
D	2.0	0.78	3000.	0.	112.	203.1	65.4	0.0	0.000E+00	0.000E+00	2.794E-06
D	3.0	2.93	3000.	0.	112.	203.1	65.4	0.0	0.000E+00	0.000E+00	1.861E-06
D	4.0	4.48	3000.	0.	112.	203.1	65.4	0.0	0.000E+00	0.000E+00	1.395E-06
D	5.0	6.41	3000.	0.	112.	203.1	65.4	0.0	0.000E+00	0.000E+00	1.117E-06
D	5.9	8.56	3000.	0.	112.	203.1	65.4	0.0	0.000E+00	0.000E+00	9.305E-07
D	7.9	12.67	3000.	0.	112.	203.1	65.4	0.0	0.000E+00	0.000E+00	6.976E-07
D	9.9	10.08	3000.	0.	112.	203.1	65.4	0.0	0.000E+00	0.000E+00	5.582E-07
D	24.4	12.27	3000.	0.	112.	203.1	65.4	0.0	0.000E+00	0.000E+00	2.270E-07
E	0.4	0.03	7000.	0.	112.	310.5	66.2	0.0	0.000E+00	0.000E+00	9.048E-06
E	0.5	0.04	7000.	0.	112.	310.5	66.2	0.0	0.000E+00	0.000E+00	7.513E-06
E	0.7	0.07	7000.	0.	112.	310.5	66.2	0.0	0.000E+00	0.000E+00	5.009E-06
E	1.0	0.15	7000.	0.	112.	310.5	66.2	0.0	0.000E+00	0.000E+00	3.756E-06

E	1.5	0.07	7000.	0.	112.	310.5	66.2	0.0	0.000E+00	0.000E+00	2.504E-06
E	2.0	0.41	7000.	0.	112.	310.5	66.2	0.0	0.000E+00	0.000E+00	1.882E-06
E	3.0	1.07	7000.	0.	112.	310.5	66.2	0.0	0.000E+00	0.000E+00	1.254E-06
E	3.9	1.78	7000.	0.	112.	310.5	66.2	0.0	0.000E+00	0.000E+00	9.402E-07
E	4.9	1.82	7000.	0.	112.	310.5	66.2	0.0	0.000E+00	0.000E+00	7.526E-07
E	5.9	2.41	7000.	0.	112.	310.5	66.2	0.0	0.000E+00	0.000E+00	6.270E-07
E	7.9	3.89	7000.	0.	112.	310.5	66.2	0.0	0.000E+00	0.000E+00	4.701E-07
E	9.8	2.04	7000.	0.	112.	310.5	66.2	0.0	0.000E+00	0.000E+00	3.761E-07
E	24.2	4.45	7000.	0.	112.	310.5	66.2	0.0	0.000E+00	0.000E+00	1.530E-07
F	0.4	0.02	90000.	0.	112.	1000.0	92.1	0.0	0.000E+00	0.000E+00	4.035E-06
F	1.0	0.04	90000.	0.	112.	1000.0	92.1	0.0	0.000E+00	0.000E+00	1.675E-06
F	1.2	0.11	90000.	0.	112.	1000.0	92.1	0.0	0.000E+00	0.000E+00	1.340E-06
F	1.5	0.15	90000.	0.	112.	1000.0	92.1	0.0	0.000E+00	0.000E+00	1.117E-06
F	2.0	0.15	90000.	0.	112.	1000.0	92.1	0.0	0.000E+00	0.000E+00	8.395E-07
F	3.0	0.85	90000.	0.	112.	1000.0	92.1	0.0	0.000E+00	0.000E+00	5.592E-07
F	3.9	1.04	90000.	0.	112.	1000.0	92.1	0.0	0.000E+00	0.000E+00	4.193E-07
F	4.9	1.22	90000.	0.	112.	1000.0	92.1	0.0	0.000E+00	0.000E+00	3.356E-07
F	5.9	1.41	90000.	0.	112.	1000.0	92.1	0.0	0.000E+00	0.000E+00	2.796E-07
F	7.9	1.45	90000.	0.	112.	1000.0	92.1	0.0	0.000E+00	0.000E+00	2.096E-07
F	9.8	0.30	90000.	0.	112.	1000.0	92.1	0.0	0.000E+00	0.000E+00	1.677E-07
G	0.4	0.09	90000.	0.	112.	1000.0	46.0	0.0	0.000E+00	0.000E+00	8.741E-07
G	1.0	0.15	90000.	0.	112.	1000.0	46.0	0.0	0.000E+00	0.000E+00	3.629E-07
G	1.2	0.19	90000.	0.	112.	1000.0	46.0	0.0	0.000E+00	0.000E+00	2.903E-07
G	1.5	0.04	90000.	0.	112.	1000.0	46.0	0.0	0.000E+00	0.000E+00	2.419E-07
G	2.0	0.41	90000.	0.	112.	1000.0	46.0	0.0	0.000E+00	0.000E+00	1.819E-07
G	3.0	0.82	90000.	0.	112.	1000.0	46.0	0.0	0.000E+00	0.000E+00	1.211E-07
G	3.9	0.74	90000.	0.	112.	1000.0	46.0	0.0	0.000E+00	0.000E+00	9.083E-08
G	4.9	1.19	90000.	0.	112.	1000.0	46.0	0.0	0.000E+00	0.000E+00	7.271E-08
G	5.9	1.22	90000.	0.	112.	1000.0	46.0	0.0	0.000E+00	0.000E+00	6.057E-08
G	7.9	1.30	90000.	0.	112.	1000.0	46.0	0.0	0.000E+00	0.000E+00	4.541E-08
G	9.8	0.07	90000.	0.	112.	1000.0	46.0	0.0	0.000E+00	0.000E+00	3.634E-08
G	24.2	0.04	90000.	0.	112.	1000.0	46.0	0.0	0.000E+00	0.000E+00	1.478E-08

USNRC COMPUTER CODE-PAVAN, VERSION 2.0

RUN DATE: 03/14/07

PLANT NAME: Oyster Creek

METEOROLOGICAL INSTRUMENTATION

DATA PERIOD:

WIND SENSORS HEIGHT: 112 meters

TYPE OF RELEASE: Elevated Release

DELTA-T HEIGHTS: 10.1-115.8 meters

SOURCE OF DATA:

COMMENTS: Oyster Creek, Elevated Release, Stack, 1995-1999 met data

PROGRAM: PAVAN, 10/76, 8/79 REVISION, IMPLEMENTATION OF REGULATORY GUIDE 1.145

SITE EXCLUSION BOUNDARY CALCULATIONS:

SW SECTOR BOUNDARY DISTANCE = 414.0 METERS

BUILDING WAKE CREDIT IS NOT INCLUDED.

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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.

3.340E-05	1.343E-05	1.219E-05	1.115E-05	9.048E-06	7.513E-06	7.433E-06	6.429E-06	5.575E-06	5.009E-06
0.002	0.057	0.094	0.131	0.160	0.197	0.234	0.345	0.530	0.604
0.00014	0.00352	0.00581	0.00810	0.00984	0.01213	0.01441	0.02127	0.03270	0.03727
4.460E-06	4.035E-06	3.859E-06	3.756E-06	3.717E-06	3.470E-06	3.215E-06	3.052E-06	2.794E-06	2.778E-06
0.790	0.813	0.887	1.036	1.369	1.480	1.666	1.740	2.518	2.814
0.04870	0.05017	0.05474	0.06389	0.08446	0.09132	0.10275	0.10732	0.15533	0.17361
2.504E-06	2.410E-06	2.314E-06	2.288E-06	1.928E-06	1.882E-06	1.861E-06	1.832E-06	1.735E-06	1.675E-06
2.889	3.704	4.260	4.445	4.890	5.297	8.225	8.892	10.486	10.523
0.17819	0.22848	0.26277	0.27420	0.30163	0.32677	0.50737	0.54851	0.64681	0.64910
1.526E-06	1.395E-06	1.388E-06	1.340E-06	1.254E-06	1.144E-06	1.117E-06	1.117E-06	9.402E-07	9.305E-07
11.671	16.156	16.563	16.674	17.749	19.083	25.494	25.643	27.421	35.982
0.71996	0.99656	1.02171	1.02857	1.09486	1.17716	1.57263	1.58177	1.69150	2.21956
9.154E-07	8.741E-07	8.395E-07	7.844E-07	7.526E-07	6.976E-07	6.270E-07	5.647E-07	5.592E-07	5.582E-07
37.020	37.112	37.260	37.371	39.187	51.861	54.270	54.492	55.344	65.424
2.28357	2.28925	2.29840	2.30526	2.41727	3.19907	3.34766	3.36138	3.41395	4.03574
4.701E-07	4.193E-07	3.761E-07	3.723E-07	3.629E-07	3.356E-07	2.903E-07	2.796E-07	2.419E-07	2.270E-07
69.316	70.353	72.391	72.762	72.910	74.133	74.318	75.727	75.764	88.030
4.27577	4.33977	4.46550	4.48836	4.49751	4.57294	4.58437	4.67124	4.67353	5.43018
2.096E-07	1.819E-07	1.677E-07	1.530E-07	1.211E-07	9.083E-08	7.271E-08	6.057E-08	4.541E-08	3.634E-08
89.475	89.883	90.180	94.627	95.442	96.183	97.369	98.592	99.889	99.963
5.51934	5.54448	5.56277	5.83709	5.88738	5.93310	6.00625	6.08169	6.16170	6.16627
1.478E-08									
100.000									
6.16855									

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 = 3.340E-05 DISTANCE = 800.000

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)= 0.008  
HANDCHECK GRAPH: SLOPE LT -1.0 FOR LOW PERCENTAGES. XSAVE ( 3)= 0.033  
HANDCHECK GRAPH: SLOPE LT -1.0 FOR LOW PERCENTAGES. XSAVE ( 4)= 0.084  
HANDCHECK GRAPH: SLOPE LT -1.0 FOR LOW PERCENTAGES. XSAVE ( 5)= 0.274  
HANDCHECK GRAPH: SLOPE LT -1.0 FOR LOW PERCENTAGES. XSAVE ( 7)= 1.580  
HANDCHECK GRAPH: SLOPE LT -1.0 FOR LOW PERCENTAGES. XSAVE ( 8)= 2.217

K	I	XQSAVE(K, I)	XQINT(K, I)	XQSLOP(K, I)
3	1	-10.30702	-15.95898	-1.20751
3	2	-11.40411	-18.59250	-1.90567
3	3	-12.09726	-17.25288	-1.51263
3	4	-12.50272	-16.70126	-1.33698
3	5	-12.98780	-15.62265	-0.94864
3	6	-13.26439	-16.51946	-1.30939
3	7	-13.70502	-16.53511	-1.31667
3	8	-13.88753	NUMXQ(K)= 8	
		4.264E-06	0.062	1.000
		2.706E-06	0.185	3.000
		2.206E-06	0.308	5.000
		1.763E-06	0.617	10.000
		1.463E-06	0.925	15.000
		1.269E-06	1.234	20.000
		1.132E-06	1.542	25.000
		1.027E-06	1.851	30.000
		9.448E-07	2.159	35.000
		1.890E-06	0.5	8.11

ANNUAL AVERAGE = 5.20E-09

K= 3 FIVEXQ(K)= 1.890E-06 FIVEPR(K)= 8.106

FUMIGATION X/Q AT THE BOUNDARY: 1.07E-04

EXPONENTIAL TERM AND FREQUENCIES

4.773E-01	4.493E-01	4.286E-01	2.388E-01	2.312E-01	1.864E-01	5.166E-02
6.731	8.473	11.663	29.887	88.901	93.756	100.000

USNRC COMPUTER CODE-PAVAN, VERSION 2.0

RUN DATE: 03/14/07

PLANT NAME: Oyster Creek

METEOROLOGICAL INSTRUMENTATION

DATA PERIOD:

WIND SENSORS HEIGHT: 112 meters

TYPE OF RELEASE: Elevated Release

DELTA-T HEIGHTS: 10.1-115.8 meters

SOURCE OF DATA:

COMMENTS: Oyster Creek, Elevated Release, Stack, 1995-1999 met data

PROGRAM: PAVAN, 10/76, 8/79 REVISION, IMPLEMENTATION OF REGULATORY GUIDE 1.145

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

CLASS	METER/SEC	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	USED	
AT 112.0 METERS												
A	2.0	0.04	414.	0.	112.	84.5	88.5	0.0	0.000E+00	0.000E+00	9.651E-06	
A	5.0	0.22	414.	0.	112.	84.5	88.5	0.0	0.000E+00	0.000E+00	3.859E-06	
A	5.9	0.35	414.	0.	112.	84.5	88.5	0.0	0.000E+00	0.000E+00	3.215E-06	
A	7.9	0.84	414.	0.	112.	84.5	88.5	0.0	0.000E+00	0.000E+00	2.410E-06	
A	9.9	0.35	414.	0.	112.	84.5	88.5	0.0	0.000E+00	0.000E+00	1.928E-06	
A	24.4	0.18	414.	0.	112.	84.5	88.5	0.0	0.000E+00	0.000E+00	7.844E-07	
CA= 957.SQ.METERS												
B	0.4	0.00	800.	0.	112.	115.2	86.0	0.0	0.000E+00	0.000E+00	3.340E-05	
B	3.0	0.09	800.	0.	112.	115.2	86.0	0.0	0.000E+00	0.000E+00	4.629E-06	
B	4.0	0.31	800.	0.	112.	115.2	86.0	0.0	0.000E+00	0.000E+00	3.470E-06	
B	5.0	1.06	800.	0.	112.	115.2	86.0	0.0	0.000E+00	0.000E+00	2.778E-06	
B	5.9	1.72	800.	0.	112.	115.2	86.0	0.0	0.000E+00	0.000E+00	2.314E-06	
B	7.9	2.56	800.	0.	112.	115.2	86.0	0.0	0.000E+00	0.000E+00	1.735E-06	
B	9.9	0.66	800.	0.	112.	115.2	86.0	0.0	0.000E+00	0.000E+00	1.388E-06	
B	24.4	0.18	800.	0.	112.	115.2	86.0	0.0	0.000E+00	0.000E+00	5.647E-07	
C	2.0	0.04	1000.	0.	112.	107.0	61.1	0.0	0.000E+00	0.000E+00	4.581E-06	
C	3.0	0.18	1000.	0.	112.	107.0	61.1	0.0	0.000E+00	0.000E+00	3.052E-06	
C	4.0	0.62	1000.	0.	112.	107.0	61.1	0.0	0.000E+00	0.000E+00	2.288E-06	
C	5.0	1.81	1000.	0.	112.	107.0	61.1	0.0	0.000E+00	0.000E+00	1.832E-06	
C	5.9	3.09	1000.	0.	112.	107.0	61.1	0.0	0.000E+00	0.000E+00	1.526E-06	
C	7.9	2.29	1000.	0.	112.	107.0	61.1	0.0	0.000E+00	0.000E+00	1.144E-06	
C	9.9	0.62	1000.	0.	112.	107.0	61.1	0.0	0.000E+00	0.000E+00	9.154E-07	
C	24.4	0.09	1000.	0.	112.	107.0	61.1	0.0	0.000E+00	0.000E+00	3.723E-07	
D	0.4	0.05	3000.	0.	112.	203.1	65.4	0.0	0.000E+00	0.000E+00	1.343E-05	
D	0.7	0.04	3000.	0.	112.	203.1	65.4	0.0	0.000E+00	0.000E+00	7.433E-06	
D	1.0	0.18	3000.	0.	112.	203.1	65.4	0.0	0.000E+00	0.000E+00	5.575E-06	
D	1.2	0.22	3000.	0.	112.	203.1	65.4	0.0	0.000E+00	0.000E+00	4.460E-06	
D	1.5	0.35	3000.	0.	112.	203.1	65.4	0.0	0.000E+00	0.000E+00	3.717E-06	
D	2.0	1.01	3000.	0.	112.	203.1	65.4	0.0	0.000E+00	0.000E+00	2.794E-06	
D	3.0	2.78	3000.	0.	112.	203.1	65.4	0.0	0.000E+00	0.000E+00	1.861E-06	
D	4.0	5.91	3000.	0.	112.	203.1	65.4	0.0	0.000E+00	0.000E+00	1.395E-06	
D	5.0	7.89	3000.	0.	112.	203.1	65.4	0.0	0.000E+00	0.000E+00	1.117E-06	
D	5.9	8.03	3000.	0.	112.	203.1	65.4	0.0	0.000E+00	0.000E+00	9.305E-07	
D	7.9	12.17	3000.	0.	112.	203.1	65.4	0.0	0.000E+00	0.000E+00	6.976E-07	
D	9.9	9.57	3000.	0.	112.	203.1	65.4	0.0	0.000E+00	0.000E+00	5.582E-07	
D	24.4	9.52	3000.	0.	112.	203.1	65.4	0.0	0.000E+00	0.000E+00	2.270E-07	
E	0.4	0.04	7000.	0.	112.	310.5	66.2	0.0	0.000E+00	0.000E+00	9.048E-06	
E	0.7	0.04	7000.	0.	112.	310.5	66.2	0.0	0.000E+00	0.000E+00	5.009E-06	
E	1.0	0.26	7000.	0.	112.	310.5	66.2	0.0	0.000E+00	0.000E+00	3.756E-06	
E	1.2	0.04	7000.	0.	112.	310.5	66.2	0.0	0.000E+00	0.000E+00	3.005E-06	

E	1.5	0.22	7000.	0.	112.	310.5	66.2	0.0	0.000E+00	0.000E+00	2.504E-06
E	2.0	0.40	7000.	0.	112.	310.5	66.2	0.0	0.000E+00	0.000E+00	1.882E-06
E	3.0	1.15	7000.	0.	112.	310.5	66.2	0.0	0.000E+00	0.000E+00	1.254E-06
E	3.9	1.68	7000.	0.	112.	310.5	66.2	0.0	0.000E+00	0.000E+00	9.402E-07
E	4.9	1.76	7000.	0.	112.	310.5	66.2	0.0	0.000E+00	0.000E+00	7.526E-07
E	5.9	2.16	7000.	0.	112.	310.5	66.2	0.0	0.000E+00	0.000E+00	6.270E-07
E	7.9	4.19	7000.	0.	112.	310.5	66.2	0.0	0.000E+00	0.000E+00	4.701E-07
E	9.8	1.50	7000.	0.	112.	310.5	66.2	0.0	0.000E+00	0.000E+00	3.761E-07
E	24.2	3.04	7000.	0.	112.	310.5	66.2	0.0	0.000E+00	0.000E+00	1.530E-07
F	0.4	0.01	90000.	0.	112.	1000.0	92.1	0.0	0.000E+00	0.000E+00	4.035E-06
F	0.7	0.04	90000.	0.	112.	1000.0	92.1	0.0	0.000E+00	0.000E+00	2.234E-06
F	1.2	0.04	90000.	0.	112.	1000.0	92.1	0.0	0.000E+00	0.000E+00	1.340E-06
F	2.0	0.04	90000.	0.	112.	1000.0	92.1	0.0	0.000E+00	0.000E+00	8.395E-07
F	3.0	0.71	90000.	0.	112.	1000.0	92.1	0.0	0.000E+00	0.000E+00	5.592E-07
F	3.9	0.53	90000.	0.	112.	1000.0	92.1	0.0	0.000E+00	0.000E+00	4.193E-07
F	4.9	0.84	90000.	0.	112.	1000.0	92.1	0.0	0.000E+00	0.000E+00	3.356E-07
F	5.9	0.75	90000.	0.	112.	1000.0	92.1	0.0	0.000E+00	0.000E+00	2.796E-07
F	7.9	0.84	90000.	0.	112.	1000.0	92.1	0.0	0.000E+00	0.000E+00	2.096E-07
F	9.8	0.13	90000.	0.	112.	1000.0	92.1	0.0	0.000E+00	0.000E+00	1.677E-07
G	0.4	0.06	90000.	0.	112.	1000.0	46.0	0.0	0.000E+00	0.000E+00	8.741E-07
G	0.5	0.04	90000.	0.	112.	1000.0	46.0	0.0	0.000E+00	0.000E+00	7.258E-07
G	0.7	0.04	90000.	0.	112.	1000.0	46.0	0.0	0.000E+00	0.000E+00	4.839E-07
G	1.0	0.04	90000.	0.	112.	1000.0	46.0	0.0	0.000E+00	0.000E+00	3.629E-07
G	1.2	0.09	90000.	0.	112.	1000.0	46.0	0.0	0.000E+00	0.000E+00	2.903E-07
G	1.5	0.22	90000.	0.	112.	1000.0	46.0	0.0	0.000E+00	0.000E+00	2.419E-07
G	2.0	0.18	90000.	0.	112.	1000.0	46.0	0.0	0.000E+00	0.000E+00	1.819E-07
G	3.0	0.71	90000.	0.	112.	1000.0	46.0	0.0	0.000E+00	0.000E+00	1.211E-07
G	3.9	0.97	90000.	0.	112.	1000.0	46.0	0.0	0.000E+00	0.000E+00	9.083E-08
G	4.9	0.57	90000.	0.	112.	1000.0	46.0	0.0	0.000E+00	0.000E+00	7.271E-08
G	5.9	0.79	90000.	0.	112.	1000.0	46.0	0.0	0.000E+00	0.000E+00	6.057E-08
G	7.9	0.75	90000.	0.	112.	1000.0	46.0	0.0	0.000E+00	0.000E+00	4.541E-08
G	9.8	0.09	90000.	0.	112.	1000.0	46.0	0.0	0.000E+00	0.000E+00	3.634E-08

USNRC COMPUTER CODE-PAVAN, VERSION 2.0

RUN DATE: 03/14/07

PLANT NAME: Oyster Creek

METEOROLOGICAL INSTRUMENTATION

DATA PERIOD:

WIND SENSORS HEIGHT: 112 meters

TYPE OF RELEASE: Elevated Release

DELTA-T HEIGHTS: 10.1-115.8 meters

SOURCE OF DATA:

COMMENTS: Oyster Creek, Elevated Release, Stack, 1995-1999 met data

PROGRAM: PAVAN, 10/76, 8/79 REVISION, IMPLEMENTATION OF REGULATORY GUIDE 1.145

SITE EXCLUSION BOUNDARY CALCULATIONS:

WSW SECTOR BOUNDARY DISTANCE = 414.0 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.

3.340E-05	1.343E-05	9.651E-06	9.048E-06	7.433E-06	5.575E-06	5.009E-06	4.629E-06	4.581E-06	4.460E-06
0.003	0.057	0.101	0.140	0.184	0.360	0.404	0.492	0.536	0.757
0.00014	0.00296	0.00525	0.00724	0.00952	0.01867	0.02095	0.02553	0.02781	0.03924
4.035E-06	3.859E-06	3.756E-06	3.717E-06	3.470E-06	3.215E-06	3.052E-06	3.005E-06	2.794E-06	2.778E-06
0.771	0.992	1.256	1.609	1.918	2.270	2.447	2.491	3.505	4.563
0.03998	0.05141	0.06512	0.08341	0.09941	0.11770	0.12684	0.12913	0.18171	0.23657
2.504E-06	2.410E-06	2.314E-06	2.288E-06	2.234E-06	1.928E-06	1.882E-06	1.861E-06	1.832E-06	1.735E-06
4.784	5.621	7.341	7.958	8.003	8.355	8.752	11.530	13.338	15.895
0.24800	0.29143	0.38059	0.41259	0.41488	0.43317	0.45374	0.59776	0.69148	0.82407
1.526E-06	1.395E-06	1.388E-06	1.340E-06	1.254E-06	1.144E-06	1.117E-06	9.402E-07	9.305E-07	9.154E-07
18.982	24.891	25.552	25.596	26.743	29.036	36.928	38.604	46.629	47.246
0.98409	1.29041	1.32470	1.32698	1.38642	1.50529	1.91448	2.00134	2.41739	2.44940
8.741E-07	8.395E-07	7.844E-07	7.526E-07	7.258E-07	6.976E-07	6.270E-07	5.647E-07	5.592E-07	5.582E-07
47.307	47.351	47.528	49.292	49.336	61.506	63.666	63.843	64.548	74.117
2.45255	2.45484	2.46398	2.55542	2.55771	3.18864	3.30065	3.30980	3.34637	3.84243
4.839E-07	4.701E-07	4.193E-07	3.761E-07	3.723E-07	3.629E-07	3.356E-07	2.903E-07	2.796E-07	2.419E-07
74.161	78.350	78.879	80.378	80.466	80.510	81.348	81.436	82.186	82.406
3.84471	4.06188	4.08931	4.16704	4.17161	4.17389	4.21733	4.22190	4.26076	4.27219
2.270E-07	2.096E-07	1.819E-07	1.677E-07	1.530E-07	1.211E-07	9.083E-08	7.271E-08	6.057E-08	4.541E-08
91.931	92.769	92.945	93.077	96.120	96.825	97.795	98.369	99.162	99.912
4.76596	4.80940	4.81854	4.82540	4.98313	5.01971	5.07000	5.09971	5.14086	5.17972
3.634E-08									
100.000									
5.18430									

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 = 3.340E-05 DISTANCE = 800.000



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)= 0.003  
 HANDCHECK GRAPH: SLOPE LT -1.0 FOR LOW PERCENTAGES. XSAVE ( 3)= 0.039  
 HANDCHECK GRAPH: SLOPE LT -1.0 FOR LOW PERCENTAGES. XSAVE ( 6)= 0.412  
 HANDCHECK GRAPH: SLOPE LT -1.0 FOR LOW PERCENTAGES. XSAVE ( 7)= 0.823  
 HANDCHECK GRAPH: SLOPE LT -1.0 FOR LOW PERCENTAGES. XSAVE ( 8)= 1.323  
 HANDCHECK GRAPH: SLOPE LT -1.0 FOR LOW PERCENTAGES. XSAVE ( 9)= 1.912  
 HANDCHECK GRAPH: SLOPE LT -1.0 FOR LOW PERCENTAGES. XSAVE(10)= 2.415

K	I	XQSAVE(K,I)	XQINT(K,I)	XQSLOP(K,I)	
4	1	-10.30702	-16.72289	-1.37072	
4	2	-11.21821	-17.94912	-1.67606	
4	3	-12.32040	-15.17738	-0.85072	
4	4	-12.50272	-15.37198	-0.91262	
4	5	-12.79371	-15.78754	-1.05971	
4	6	-12.98780	-15.98916	-1.13603	
4	7	-13.26439	-16.24854	-1.24417	
4	8	-13.48731	-16.76904	-1.47870	
4	9	-13.70491	-17.58808	-1.87395	
4	10	-13.88753			NUMXQ(K)= 10
		4.174E-06	0.052		1.000
		3.133E-06	0.156		3.000
		2.693E-06	0.259		5.000
		2.093E-06	0.518		10.000
		1.777E-06	0.778		15.000
		1.560E-06	1.037		20.000
		1.403E-06	1.296		25.000
		1.265E-06	1.555		30.000
		1.154E-06	1.815		35.000
		1.050E-06	2.074		40.000
		9.572E-07	2.333		45.000
		2.123E-06	0.5		9.64

ANNUAL AVERAGE = 6.05E-09

K= 4 FIVEXQ(K)= 2.123E-06 FIVEPR(K)= 9.645

FUMIGATION X/Q AT THE BOUNDARY: 1.07E-04

EXPONENTIAL TERM AND FREQUENCIES

4.773E-01	4.493E-01	4.286E-01	2.388E-01	2.312E-01	1.864E-01	5.166E-02
3.939	5.923	12.496	28.981	86.711	95.441	100.000

USNRC COMPUTER CODE-PAVAN, VERSION 2.0

RUN DATE: 03/14/07

PLANT NAME: Oyster Creek

METEOROLOGICAL INSTRUMENTATION

DATA PERIOD:

WIND SENSORS HEIGHT: 112 meters

TYPE OF RELEASE: Elevated Release

DELTA-T HEIGHTS: 10.1-115.8 meters

SOURCE OF DATA:

COMMENTS: Oyster Creek, Elevated Release, Stack, 1995-1999 met data

PROGRAM: PAVAN, 10/76, 8/79 REVISION, IMPLEMENTATION OF REGULATORY GUIDE 1.145

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

CLASS	METER/SEC	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	USED
AT 112.0 METERS											
A	4.0	0.12	414.	0.	112.	84.5	88.5	0.0	0.000E+00	0.000E+00	4.820E-06
A	5.0	0.43	414.	0.	112.	84.5	88.5	0.0	0.000E+00	0.000E+00	3.859E-06
A	5.9	0.49	414.	0.	112.	84.5	88.5	0.0	0.000E+00	0.000E+00	3.215E-06
A	7.9	0.12	414.	0.	112.	84.5	88.5	0.0	0.000E+00	0.000E+00	2.410E-06
A	24.4	0.06	414.	0.	112.	84.5	88.5	0.0	0.000E+00	0.000E+00	7.844E-07
B	0.4	0.00	800.	0.	112.	115.2	86.0	0.0	0.000E+00	0.000E+00	3.340E-05
B	3.0	0.06	800.	0.	112.	115.2	86.0	0.0	0.000E+00	0.000E+00	4.629E-06
B	4.0	0.25	800.	0.	112.	115.2	86.0	0.0	0.000E+00	0.000E+00	3.470E-06
B	5.0	1.35	800.	0.	112.	115.2	86.0	0.0	0.000E+00	0.000E+00	2.778E-06
B	5.9	1.41	800.	0.	112.	115.2	86.0	0.0	0.000E+00	0.000E+00	2.314E-06
B	7.9	0.49	800.	0.	112.	115.2	86.0	0.0	0.000E+00	0.000E+00	1.735E-06
B	9.9	0.18	800.	0.	112.	115.2	86.0	0.0	0.000E+00	0.000E+00	1.388E-06
B	24.4	0.12	800.	0.	112.	115.2	86.0	0.0	0.000E+00	0.000E+00	5.647E-07
C	2.0	0.12	1000.	0.	112.	107.0	61.1	0.0	0.000E+00	0.000E+00	4.581E-06
C	3.0	0.31	1000.	0.	112.	107.0	61.1	0.0	0.000E+00	0.000E+00	3.052E-06
C	4.0	2.03	1000.	0.	112.	107.0	61.1	0.0	0.000E+00	0.000E+00	2.288E-06
C	5.0	3.14	1000.	0.	112.	107.0	61.1	0.0	0.000E+00	0.000E+00	1.832E-06
C	5.9	2.15	1000.	0.	112.	107.0	61.1	0.0	0.000E+00	0.000E+00	1.526E-06
C	7.9	0.74	1000.	0.	112.	107.0	61.1	0.0	0.000E+00	0.000E+00	1.144E-06
C	9.9	0.06	1000.	0.	112.	107.0	61.1	0.0	0.000E+00	0.000E+00	9.154E-07
C	24.4	0.25	1000.	0.	112.	107.0	61.1	0.0	0.000E+00	0.000E+00	3.723E-07
D	0.4	0.09	3000.	0.	112.	203.1	65.4	0.0	0.000E+00	0.000E+00	1.343E-05
D	0.7	0.06	3000.	0.	112.	203.1	65.4	0.0	0.000E+00	0.000E+00	7.433E-06
D	1.0	0.25	3000.	0.	112.	203.1	65.4	0.0	0.000E+00	0.000E+00	5.575E-06
D	1.2	0.43	3000.	0.	112.	203.1	65.4	0.0	0.000E+00	0.000E+00	4.460E-06
D	1.5	0.12	3000.	0.	112.	203.1	65.4	0.0	0.000E+00	0.000E+00	3.717E-06
D	2.0	1.29	3000.	0.	112.	203.1	65.4	0.0	0.000E+00	0.000E+00	2.794E-06
D	3.0	5.78	3000.	0.	112.	203.1	65.4	0.0	0.000E+00	0.000E+00	1.861E-06
D	4.0	9.23	3000.	0.	112.	203.1	65.4	0.0	0.000E+00	0.000E+00	1.395E-06
D	5.0	9.54	3000.	0.	112.	203.1	65.4	0.0	0.000E+00	0.000E+00	1.117E-06
D	5.9	8.24	3000.	0.	112.	203.1	65.4	0.0	0.000E+00	0.000E+00	9.305E-07
D	7.9	9.04	3000.	0.	112.	203.1	65.4	0.0	0.000E+00	0.000E+00	6.976E-07
D	9.9	7.07	3000.	0.	112.	203.1	65.4	0.0	0.000E+00	0.000E+00	5.582E-07
D	24.4	5.66	3000.	0.	112.	203.1	65.4	0.0	0.000E+00	0.000E+00	2.270E-07
E	0.4	0.03	7000.	0.	112.	310.5	66.2	0.0	0.000E+00	0.000E+00	9.048E-06
E	0.5	0.06	7000.	0.	112.	310.5	66.2	0.0	0.000E+00	0.000E+00	7.513E-06
E	1.0	0.06	7000.	0.	112.	310.5	66.2	0.0	0.000E+00	0.000E+00	3.756E-06
E	1.2	0.18	7000.	0.	112.	310.5	66.2	0.0	0.000E+00	0.000E+00	3.005E-06
E	1.5	0.37	7000.	0.	112.	310.5	66.2	0.0	0.000E+00	0.000E+00	2.504E-06

E	2.0	0.49	7000.	0.	112.	310.5	66.2	0.0	0.000E+00	0.000E+00	1.882E-06
E	3.0	2.21	7000.	0.	112.	310.5	66.2	0.0	0.000E+00	0.000E+00	1.254E-06
E	3.9	1.85	7000.	0.	112.	310.5	66.2	0.0	0.000E+00	0.000E+00	9.402E-07
E	4.9	2.77	7000.	0.	112.	310.5	66.2	0.0	0.000E+00	0.000E+00	7.526E-07
E	5.9	2.28	7000.	0.	112.	310.5	66.2	0.0	0.000E+00	0.000E+00	6.270E-07
E	7.9	3.69	7000.	0.	112.	310.5	66.2	0.0	0.000E+00	0.000E+00	4.701E-07
E	9.8	2.15	7000.	0.	112.	310.5	66.2	0.0	0.000E+00	0.000E+00	3.761E-07
E	24.2	2.71	7000.	0.	112.	310.5	66.2	0.0	0.000E+00	0.000E+00	1.530E-07
F	0.4	0.02	90000.	0.	112.	1000.0	92.1	0.0	0.000E+00	0.000E+00	4.035E-06
F	1.0	0.12	90000.	0.	112.	1000.0	92.1	0.0	0.000E+00	0.000E+00	1.675E-06
F	2.0	0.06	90000.	0.	112.	1000.0	92.1	0.0	0.000E+00	0.000E+00	8.395E-07
F	3.0	0.80	90000.	0.	112.	1000.0	92.1	0.0	0.000E+00	0.000E+00	5.592E-07
F	3.9	1.11	90000.	0.	112.	1000.0	92.1	0.0	0.000E+00	0.000E+00	4.193E-07
F	4.9	1.05	90000.	0.	112.	1000.0	92.1	0.0	0.000E+00	0.000E+00	3.356E-07
F	5.9	0.92	90000.	0.	112.	1000.0	92.1	0.0	0.000E+00	0.000E+00	2.796E-07
F	7.9	0.31	90000.	0.	112.	1000.0	92.1	0.0	0.000E+00	0.000E+00	2.096E-07
F	9.8	0.06	90000.	0.	112.	1000.0	92.1	0.0	0.000E+00	0.000E+00	1.677E-07
F	24.2	0.06	90000.	0.	112.	1000.0	92.1	0.0	0.000E+00	0.000E+00	6.823E-08
G	0.4	0.07	90000.	0.	112.	1000.0	46.0	0.0	0.000E+00	0.000E+00	8.741E-07
G	0.7	0.06	90000.	0.	112.	1000.0	46.0	0.0	0.000E+00	0.000E+00	4.839E-07
G	1.0	0.06	90000.	0.	112.	1000.0	46.0	0.0	0.000E+00	0.000E+00	3.629E-07
G	1.2	0.12	90000.	0.	112.	1000.0	46.0	0.0	0.000E+00	0.000E+00	2.903E-07
G	1.5	0.12	90000.	0.	112.	1000.0	46.0	0.0	0.000E+00	0.000E+00	2.419E-07
G	2.0	0.31	90000.	0.	112.	1000.0	46.0	0.0	0.000E+00	0.000E+00	1.819E-07
G	3.0	0.98	90000.	0.	112.	1000.0	46.0	0.0	0.000E+00	0.000E+00	1.211E-07
G	3.9	1.05	90000.	0.	112.	1000.0	46.0	0.0	0.000E+00	0.000E+00	9.083E-08
G	4.9	1.17	90000.	0.	112.	1000.0	46.0	0.0	0.000E+00	0.000E+00	7.271E-08
G	5.9	1.35	90000.	0.	112.	1000.0	46.0	0.0	0.000E+00	0.000E+00	6.057E-08
G	7.9	0.55	90000.	0.	112.	1000.0	46.0	0.0	0.000E+00	0.000E+00	4.541E-08
G	9.8	0.06	90000.	0.	112.	1000.0	46.0	0.0	0.000E+00	0.000E+00	3.634E-08

USNRC COMPUTER CODE-PAVAN, VERSION 2.0

RUN DATE: 03/14/07

PLANT NAME: Oyster Creek

METEOROLOGICAL INSTRUMENTATION

DATA PERIOD:

WIND SENSORS HEIGHT: 112 meters

TYPE OF RELEASE: Elevated Release

DELTA-T HEIGHTS: 10.1-115.8 meters

SOURCE OF DATA:

COMMENTS: Oyster Creek, Elevated Release, Stack, 1995-1999 met data

PROGRAM: PAVAN, 10/76, 8/79 REVISION, IMPLEMENTATION OF REGULATORY GUIDE 1.145

SITE EXCLUSION BOUNDARY CALCULATIONS:

W SECTOR BOUNDARY DISTANCE = 414.0 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.

3.340E-05	1.343E-05	9.048E-06	7.513E-06	7.433E-06	5.575E-06	4.820E-06	4.629E-06	4.581E-06	4.460E-06
0.004	0.095	0.128	0.190	0.251	0.497	0.621	0.682	0.805	1.236
0.00014	0.00352	0.00477	0.00706	0.00934	0.01849	0.02306	0.02534	0.02992	0.04592
4.035E-06	3.859E-06	3.756E-06	3.717E-06	3.470E-06	3.215E-06	3.052E-06	3.005E-06	2.794E-06	2.778E-06
1.255	1.686	1.748	1.871	2.117	2.609	2.916	3.101	4.393	5.746
0.04665	0.06265	0.06494	0.06951	0.07866	0.09694	0.10837	0.11523	0.16324	0.21353
2.504E-06	2.410E-06	2.314E-06	2.288E-06	1.882E-06	1.861E-06	1.832E-06	1.735E-06	1.675E-06	1.526E-06
6.115	6.239	7.653	9.684	10.176	15.959	19.096	19.588	19.711	21.864
0.22724	0.23182	0.28439	0.35983	0.37812	0.59300	0.70959	0.72787	0.73244	0.81245
1.395E-06	1.388E-06	1.254E-06	1.144E-06	1.117E-06	9.402E-07	9.305E-07	9.154E-07	8.741E-07	8.395E-07
31.092	31.277	33.491	34.230	43.765	45.611	53.854	53.916	53.984	54.045
1.15535	1.16221	1.24450	1.27193	1.62626	1.69484	2.00116	2.00345	2.00597	2.00826
7.844E-07	7.526E-07	6.976E-07	6.270E-07	5.647E-07	5.592E-07	5.582E-07	4.839E-07	4.701E-07	4.193E-07
54.107	56.875	65.918	68.195	68.318	69.117	76.192	76.254	79.945	81.052
2.01055	2.11341	2.44945	2.53403	2.53861	2.56832	2.83121	2.83350	2.97066	3.01180
3.761E-07	3.723E-07	3.629E-07	3.356E-07	2.903E-07	2.796E-07	2.419E-07	2.270E-07	2.096E-07	1.819E-07
83.205	83.451	83.513	84.559	84.682	85.605	85.728	91.387	91.695	92.003
3.09181	3.10096	3.10324	3.14210	3.14668	3.18097	3.18554	3.39585	3.40728	3.41871
1.677E-07	1.530E-07	1.211E-07	9.083E-08	7.271E-08	6.823E-08	6.057E-08	4.541E-08	3.634E-08	
92.064	94.771	95.755	96.801	97.970	98.031	99.385	99.938	100.000	
3.42099	3.52158	3.55815	3.59701	3.64045	3.64273	3.69302	3.71360	3.71588	

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 = 3.340E-05 DISTANCE = 800.000

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)= 0.004  
 HANDCHECK GRAPH: SLOPE LT -1.0 FOR LOW PERCENTAGES. XSAVE ( 3)= 0.046  
 HANDCHECK GRAPH: SLOPE LT -1.0 FOR LOW PERCENTAGES. XSAVE ( 4)= 0.163  
 HANDCHECK GRAPH: SLOPE LT -1.0 FOR LOW PERCENTAGES. XSAVE ( 6)= 0.709  
 HANDCHECK GRAPH: SLOPE LT -1.0 FOR LOW PERCENTAGES. XSAVE ( 7)= 1.154  
 HANDCHECK GRAPH: SLOPE LT -1.0 FOR LOW PERCENTAGES. XSAVE ( 8)= 1.624  
 HANDCHECK GRAPH: SLOPE LT -1.0 FOR LOW PERCENTAGES. XSAVE ( 9)= 1.999

K	I	XQSAVE(K, I)	XQINT(K, I)	XQSLOP(K, I)
5	1	-10.30702	-16.34787	-1.29060
5	2	-11.21821	-17.85588	-1.67001
5	3	-12.32040	-16.48089	-1.25518
5	4	-12.78817	-12.98200	-0.06588
5	5	-12.79371	-15.73303	-1.02852
5	6	-13.21027	-16.90466	-1.50619
5	7	-13.48243	-17.26137	-1.66319
5	8	-13.70491	-18.33227	-2.16400
5	9	-13.88753	NUMXQ(K)= 9	
		4.919E-06	0.037	1.000
		3.232E-06	0.111	3.000
		2.786E-06	0.186	5.000
		2.307E-06	0.372	10.000
		2.000E-06	0.557	15.000
		1.786E-06	0.743	20.000
		1.579E-06	0.929	25.000
		1.424E-06	1.115	30.000
		1.293E-06	1.301	35.000
		1.186E-06	1.486	40.000
		1.090E-06	1.672	45.000
		9.940E-07	1.858	50.000
		2.080E-06	0.5	13.46

ANNUAL AVERAGE = 3.26E-09

K= 5 FIVEXQ(K)= 2.080E-06 FIVEPR(K)=13.456

FUMIGATION X/Q AT THE BOUNDARY: 1.07E-04

EXPONENTIAL TERM AND FREQUENCIES

4.773E-01	4.493E-01	4.286E-01	2.388E-01	2.312E-01	1.864E-01	5.166E-02
4.511	5.741	9.621	28.479	85.290	94.088	100.000

USNRC COMPUTER CODE-PAVAN, VERSION 2.0

RUN DATE: 03/14/07

PLANT NAME: Oyster Creek

METEOROLOGICAL INSTRUMENTATION

DATA PERIOD:

WIND SENSORS HEIGHT: 112 meters

TYPE OF RELEASE: Elevated Release

DELTA-T HEIGHTS: 10.1-115.8 meters

SOURCE OF DATA:

COMMENTS: Oyster Creek, Elevated Release, Stack, 1995-1999 met data

PROGRAM: PAVAN, 10/76, 8/79 REVISION, IMPLEMENTATION OF REGULATORY GUIDE 1.145

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

CLASS	METER/SEC	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	USED	
									CA= 957.SQ.METERS			
AT 112.0 METERS												
A	2.0	0.07	414.	0.	112.	84.5	88.5	0.0	0.000E+00	0.000E+00	9.651E-06	
A	3.0	0.14	414.	0.	112.	84.5	88.5	0.0	0.000E+00	0.000E+00	6.429E-06	
A	4.0	0.27	414.	0.	112.	84.5	88.5	0.0	0.000E+00	0.000E+00	4.820E-06	
A	5.0	0.48	414.	0.	112.	84.5	88.5	0.0	0.000E+00	0.000E+00	3.859E-06	
A	5.9	0.21	414.	0.	112.	84.5	88.5	0.0	0.000E+00	0.000E+00	3.215E-06	
A	7.9	0.21	414.	0.	112.	84.5	88.5	0.0	0.000E+00	0.000E+00	2.410E-06	
B	0.4	0.00	800.	0.	112.	115.2	86.0	0.0	0.000E+00	0.000E+00	3.340E-05	
B	3.0	0.07	800.	0.	112.	115.2	86.0	0.0	0.000E+00	0.000E+00	4.629E-06	
B	4.0	0.55	800.	0.	112.	115.2	86.0	0.0	0.000E+00	0.000E+00	3.470E-06	
B	5.0	2.33	800.	0.	112.	115.2	86.0	0.0	0.000E+00	0.000E+00	2.778E-06	
B	5.9	1.03	800.	0.	112.	115.2	86.0	0.0	0.000E+00	0.000E+00	2.314E-06	
B	7.9	0.41	800.	0.	112.	115.2	86.0	0.0	0.000E+00	0.000E+00	1.735E-06	
B	24.4	0.07	800.	0.	112.	115.2	86.0	0.0	0.000E+00	0.000E+00	5.647E-07	
C	2.0	0.07	1000.	0.	112.	107.0	61.1	0.0	0.000E+00	0.000E+00	4.581E-06	
C	3.0	0.27	1000.	0.	112.	107.0	61.1	0.0	0.000E+00	0.000E+00	3.052E-06	
C	4.0	2.27	1000.	0.	112.	107.0	61.1	0.0	0.000E+00	0.000E+00	2.288E-06	
C	5.0	3.09	1000.	0.	112.	107.0	61.1	0.0	0.000E+00	0.000E+00	1.832E-06	
C	5.9	1.44	1000.	0.	112.	107.0	61.1	0.0	0.000E+00	0.000E+00	1.526E-06	
C	7.9	0.69	1000.	0.	112.	107.0	61.1	0.0	0.000E+00	0.000E+00	1.144E-06	
C	24.4	0.07	1000.	0.	112.	107.0	61.1	0.0	0.000E+00	0.000E+00	3.723E-07	
D	0.4	0.08	3000.	0.	112.	203.1	65.4	0.0	0.000E+00	0.000E+00	1.343E-05	
D	1.0	0.34	3000.	0.	112.	203.1	65.4	0.0	0.000E+00	0.000E+00	5.575E-06	
D	1.2	0.34	3000.	0.	112.	203.1	65.4	0.0	0.000E+00	0.000E+00	4.460E-06	
D	1.5	0.76	3000.	0.	112.	203.1	65.4	0.0	0.000E+00	0.000E+00	3.717E-06	
D	2.0	1.30	3000.	0.	112.	203.1	65.4	0.0	0.000E+00	0.000E+00	2.794E-06	
D	3.0	7.96	3000.	0.	112.	203.1	65.4	0.0	0.000E+00	0.000E+00	1.861E-06	
D	4.0	13.59	3000.	0.	112.	203.1	65.4	0.0	0.000E+00	0.000E+00	1.395E-06	
D	5.0	10.30	3000.	0.	112.	203.1	65.4	0.0	0.000E+00	0.000E+00	1.117E-06	
D	5.9	6.59	3000.	0.	112.	203.1	65.4	0.0	0.000E+00	0.000E+00	9.305E-07	
D	7.9	7.34	3000.	0.	112.	203.1	65.4	0.0	0.000E+00	0.000E+00	6.976E-07	
D	9.9	3.02	3000.	0.	112.	203.1	65.4	0.0	0.000E+00	0.000E+00	5.582E-07	
D	24.4	4.12	3000.	0.	112.	203.1	65.4	0.0	0.000E+00	0.000E+00	2.270E-07	
E	0.4	0.03	7000.	0.	112.	310.5	66.2	0.0	0.000E+00	0.000E+00	9.048E-06	
E	0.7	0.07	7000.	0.	112.	310.5	66.2	0.0	0.000E+00	0.000E+00	5.009E-06	
E	1.0	0.14	7000.	0.	112.	310.5	66.2	0.0	0.000E+00	0.000E+00	3.756E-06	
E	1.2	0.07	7000.	0.	112.	310.5	66.2	0.0	0.000E+00	0.000E+00	3.005E-06	
E	1.5	0.27	7000.	0.	112.	310.5	66.2	0.0	0.000E+00	0.000E+00	2.504E-06	
E	2.0	0.82	7000.	0.	112.	310.5	66.2	0.0	0.000E+00	0.000E+00	1.882E-06	
E	3.0	2.20	7000.	0.	112.	310.5	66.2	0.0	0.000E+00	0.000E+00	1.254E-06	

E	3.9	2.95	7000.	0.	112.	310.5	66.2	0.0	0.000E+00	0.000E+00	9.402E-07
E	4.9	2.47	7000.	0.	112.	310.5	66.2	0.0	0.000E+00	0.000E+00	7.526E-07
E	5.9	2.61	7000.	0.	112.	310.5	66.2	0.0	0.000E+00	0.000E+00	6.270E-07
E	7.9	2.75	7000.	0.	112.	310.5	66.2	0.0	0.000E+00	0.000E+00	4.701E-07
E	9.8	1.51	7000.	0.	112.	310.5	66.2	0.0	0.000E+00	0.000E+00	3.761E-07
E	24.2	2.27	7000.	0.	112.	310.5	66.2	0.0	0.000E+00	0.000E+00	1.530E-07
F	0.4	0.04	90000.	0.	112.	1000.0	92.1	0.0	0.000E+00	0.000E+00	4.035E-06
F	0.7	0.14	90000.	0.	112.	1000.0	92.1	0.0	0.000E+00	0.000E+00	2.234E-06
F	1.2	0.14	90000.	0.	112.	1000.0	92.1	0.0	0.000E+00	0.000E+00	1.340E-06
F	1.5	0.21	90000.	0.	112.	1000.0	92.1	0.0	0.000E+00	0.000E+00	1.117E-06
F	2.0	0.14	90000.	0.	112.	1000.0	92.1	0.0	0.000E+00	0.000E+00	8.395E-07
F	3.0	1.17	90000.	0.	112.	1000.0	92.1	0.0	0.000E+00	0.000E+00	5.592E-07
F	3.9	1.44	90000.	0.	112.	1000.0	92.1	0.0	0.000E+00	0.000E+00	4.193E-07
F	4.9	0.69	90000.	0.	112.	1000.0	92.1	0.0	0.000E+00	0.000E+00	3.356E-07
F	5.9	0.76	90000.	0.	112.	1000.0	92.1	0.0	0.000E+00	0.000E+00	2.796E-07
F	7.9	0.41	90000.	0.	112.	1000.0	92.1	0.0	0.000E+00	0.000E+00	2.096E-07
F	9.8	0.07	90000.	0.	112.	1000.0	92.1	0.0	0.000E+00	0.000E+00	1.677E-07
G	0.4	0.04	90000.	0.	112.	1000.0	46.0	0.0	0.000E+00	0.000E+00	8.741E-07
G	1.2	0.14	90000.	0.	112.	1000.0	46.0	0.0	0.000E+00	0.000E+00	2.903E-07
G	1.5	0.27	90000.	0.	112.	1000.0	46.0	0.0	0.000E+00	0.000E+00	2.419E-07
G	2.0	0.62	90000.	0.	112.	1000.0	46.0	0.0	0.000E+00	0.000E+00	1.819E-07
G	3.0	1.78	90000.	0.	112.	1000.0	46.0	0.0	0.000E+00	0.000E+00	1.211E-07
G	3.9	1.85	90000.	0.	112.	1000.0	46.0	0.0	0.000E+00	0.000E+00	9.083E-08
G	4.9	1.44	90000.	0.	112.	1000.0	46.0	0.0	0.000E+00	0.000E+00	7.271E-08
G	5.9	0.76	90000.	0.	112.	1000.0	46.0	0.0	0.000E+00	0.000E+00	6.057E-08
G	7.9	0.21	90000.	0.	112.	1000.0	46.0	0.0	0.000E+00	0.000E+00	4.541E-08
G	9.8	0.07	90000.	0.	112.	1000.0	46.0	0.0	0.000E+00	0.000E+00	3.634E-08

USNRC COMPUTER CODE-PAVAN, VERSION 2.0

RUN DATE: 03/14/07

PLANT NAME: Oyster Creek

METEOROLOGICAL INSTRUMENTATION

DATA PERIOD:

WIND SENSORS HEIGHT: 112 meters

TYPE OF RELEASE: Elevated Release

DELTA-T HEIGHTS: 10.1-115.8 meters

SOURCE OF DATA:

COMMENTS: Oyster Creek, Elevated Release, Stack, 1995-1999 met data

PROGRAM: PAVAN, 10/76, 8/79 REVISION, IMPLEMENTATION OF REGULATORY GUIDE 1.145

SITE EXCLUSION BOUNDARY CALCULATIONS:

WNW SECTOR BOUNDARY DISTANCE = 414.0 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.

3.340E-05	1.343E-05	9.651E-06	9.048E-06	6.429E-06	5.575E-06	5.009E-06	4.820E-06	4.629E-06	4.581E-06
0.004	0.089	0.158	0.187	0.325	0.668	0.737	1.011	1.080	1.148
0.00014	0.00296	0.00525	0.00624	0.01081	0.02224	0.02453	0.03367	0.03596	0.03825
4.460E-06	4.035E-06	3.859E-06	3.756E-06	3.717E-06	3.470E-06	3.215E-06	3.052E-06	3.005E-06	2.794E-06
1.492	1.536	2.016	2.153	2.908	3.458	3.663	3.938	4.007	5.311
0.04968	0.05115	0.06715	0.07172	0.09687	0.11515	0.12201	0.13116	0.13344	0.17687
2.778E-06	2.504E-06	2.410E-06	2.314E-06	2.288E-06	2.234E-06	1.882E-06	1.861E-06	1.832E-06	1.735E-06
7.644	7.919	8.125	9.154	11.420	11.557	12.380	20.342	23.431	23.843
0.25460	0.26374	0.27060	0.30489	0.38033	0.38490	0.41233	0.67750	0.78037	0.79409
1.526E-06	1.395E-06	1.340E-06	1.254E-06	1.144E-06	1.117E-06	1.117E-06	9.402E-07	9.305E-07	8.741E-07
25.284	38.875	39.012	41.208	41.895	52.190	52.396	55.348	61.937	61.975
0.84209	1.29472	1.29929	1.37244	1.39530	1.73820	1.74505	1.84335	2.06280	2.06407
8.395E-07	7.526E-07	6.976E-07	6.270E-07	5.647E-07	5.592E-07	5.582E-07	4.701E-07	4.193E-07	3.761E-07
62.112	64.583	71.927	74.535	74.604	75.771	78.791	81.536	82.978	84.488
2.06864	2.15093	2.39553	2.48240	2.48469	2.52355	2.62413	2.71557	2.76358	2.81387
3.723E-07	3.356E-07	2.903E-07	2.796E-07	2.419E-07	2.270E-07	2.096E-07	1.819E-07	1.677E-07	1.530E-07
84.557	85.243	85.380	86.135	86.410	90.528	90.940	91.558	91.626	93.891
2.81615	2.83901	2.84359	2.86873	2.87787	3.01503	3.02875	3.04932	3.05161	3.12705
1.211E-07	9.083E-08	7.271E-08	6.057E-08	4.541E-08	3.634E-08				
95.676	97.529	98.970	99.725	99.931	100.000				
3.18648	3.24820	3.29621	3.32135	3.32821	3.33050				

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 = 3.340E-05 DISTANCE = 800.000

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)= 0.003  
 HANDCHECK GRAPH: SLOPE LT -1.0 FOR LOW PERCENTAGES. XSAVE ( 3)= 0.050  
 HANDCHECK GRAPH: SLOPE LT -1.0 FOR LOW PERCENTAGES. XSAVE ( 6)= 0.779  
 HANDCHECK GRAPH: SLOPE LT -1.0 FOR LOW PERCENTAGES. XSAVE ( 7)= 1.293  
 HANDCHECK GRAPH: SLOPE LT -1.0 FOR LOW PERCENTAGES. XSAVE ( 8)= 1.743  
 HANDCHECK GRAPH: SLOPE LT -1.0 FOR LOW PERCENTAGES. XSAVE ( 9)= 2.061

K	I	XQSAVE(K, I)	XQINT(K, I)	XQSLOP(K, I)
6	1	-10.30702	-16.72289	-1.37072
6	2	-11.21821	-17.33763	-1.52380
6	3	-12.32040	-15.43695	-0.94653
6	4	-12.50272	-15.52528	-0.97503
6	5	-12.79371	-15.83969	-1.08726
6	6	-13.21027	-16.67155	-1.43123
6	7	-13.48243	-17.67525	-1.88168
6	8	-13.70502	-19.32177	-2.66203
6	9	-13.88753	NUMXQ(K)= 9	
		5.280E-06	0.033	1.000
		3.683E-06	0.100	3.000
		3.167E-06	0.167	5.000
		2.525E-06	0.333	10.000
		2.175E-06	0.500	15.000
		1.949E-06	0.666	20.000
		1.771E-06	0.833	25.000
		1.607E-06	0.999	30.000
		1.478E-06	1.166	35.000
		1.366E-06	1.332	40.000
		1.252E-06	1.499	45.000
		1.157E-06	1.665	50.000
		1.060E-06	1.832	55.000
		9.637E-07	1.998	60.000
		2.175E-06	0.5	15.01

ANNUAL AVERAGE = 4.03E-09

K= 6 FIVEXQ(K)= 2.175E-06 FIVEPR(K)=15.013

FUMIGATION X/Q AT THE BOUNDARY: 1.07E-04

EXPONENTIAL TERM AND FREQUENCIES

4.773E-01	4.493E-01	4.286E-01	2.388E-01	2.312E-01	1.864E-01	5.166E-02
5.192	6.565	11.030	29.181	84.930	92.824	100.000

USNRC COMPUTER CODE-PAVAN, VERSION 2.0

RUN DATE: 03/14/07

PLANT NAME: Oyster Creek

METEOROLOGICAL INSTRUMENTATION

DATA PERIOD:

WIND SENSORS HEIGHT: 112 meters

TYPE OF RELEASE: Elevated Release

DELTA-T HEIGHTS: 10.1-115.8 meters

SOURCE OF DATA:

COMMENTS: Oyster Creek, Elevated Release, Stack, 1995-1999 met data

PROGRAM: PAVAN, 10/76, 8/79 REVISION, IMPLEMENTATION OF REGULATORY GUIDE 1.145

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

CLASS	METER/SEC	PERCENT	METERS	METERS	METERS	SIGMA-Y METERS	SIGMA-Z METERS	MEANDER-SY METERS	** CHI/Q VALUES (SEC/CUBIC METER)			
									MEANDER	BLDG WAKE	USED	
AT 112.0 METERS												
CA= 957.SQ.METERS												
A	1.2	0.06	414.	0.	112.	84.5	88.5	0.0	0.000E+00	0.000E+00	1.541E-05	
A	3.0	0.06	414.	0.	112.	84.5	88.5	0.0	0.000E+00	0.000E+00	6.429E-06	
A	4.0	0.06	414.	0.	112.	84.5	88.5	0.0	0.000E+00	0.000E+00	4.820E-06	
A	5.0	0.24	414.	0.	112.	84.5	88.5	0.0	0.000E+00	0.000E+00	3.859E-06	
A	5.9	0.66	414.	0.	112.	84.5	88.5	0.0	0.000E+00	0.000E+00	3.215E-06	
A	7.9	0.60	414.	0.	112.	84.5	88.5	0.0	0.000E+00	0.000E+00	2.410E-06	
B	0.4	0.00	800.	0.	112.	115.2	86.0	0.0	0.000E+00	0.000E+00	3.340E-05	
B	3.0	0.06	800.	0.	112.	115.2	86.0	0.0	0.000E+00	0.000E+00	4.629E-06	
B	4.0	0.24	800.	0.	112.	115.2	86.0	0.0	0.000E+00	0.000E+00	3.470E-06	
B	5.0	1.68	800.	0.	112.	115.2	86.0	0.0	0.000E+00	0.000E+00	2.778E-06	
B	5.9	1.38	800.	0.	112.	115.2	86.0	0.0	0.000E+00	0.000E+00	2.314E-06	
B	7.9	1.02	800.	0.	112.	115.2	86.0	0.0	0.000E+00	0.000E+00	1.735E-06	
B	9.9	0.06	800.	0.	112.	115.2	86.0	0.0	0.000E+00	0.000E+00	1.388E-06	
C	2.0	0.12	1000.	0.	112.	107.0	61.1	0.0	0.000E+00	0.000E+00	4.581E-06	
C	3.0	0.24	1000.	0.	112.	107.0	61.1	0.0	0.000E+00	0.000E+00	3.052E-06	
C	4.0	1.50	1000.	0.	112.	107.0	61.1	0.0	0.000E+00	0.000E+00	2.288E-06	
C	5.0	3.65	1000.	0.	112.	107.0	61.1	0.0	0.000E+00	0.000E+00	1.832E-06	
C	5.9	2.99	1000.	0.	112.	107.0	61.1	0.0	0.000E+00	0.000E+00	1.526E-06	
C	7.9	1.92	1000.	0.	112.	107.0	61.1	0.0	0.000E+00	0.000E+00	1.144E-06	
C	9.9	0.06	1000.	0.	112.	107.0	61.1	0.0	0.000E+00	0.000E+00	9.154E-07	
D	0.4	0.12	3000.	0.	112.	203.1	65.4	0.0	0.000E+00	0.000E+00	1.343E-05	
D	0.7	0.24	3000.	0.	112.	203.1	65.4	0.0	0.000E+00	0.000E+00	7.433E-06	
D	1.0	0.42	3000.	0.	112.	203.1	65.4	0.0	0.000E+00	0.000E+00	5.575E-06	
D	1.2	0.30	3000.	0.	112.	203.1	65.4	0.0	0.000E+00	0.000E+00	4.460E-06	
D	1.5	0.72	3000.	0.	112.	203.1	65.4	0.0	0.000E+00	0.000E+00	3.717E-06	
D	2.0	0.96	3000.	0.	112.	203.1	65.4	0.0	0.000E+00	0.000E+00	2.794E-06	
D	3.0	6.22	3000.	0.	112.	203.1	65.4	0.0	0.000E+00	0.000E+00	1.861E-06	
D	4.0	12.03	3000.	0.	112.	203.1	65.4	0.0	0.000E+00	0.000E+00	1.395E-06	
D	5.0	11.73	3000.	0.	112.	203.1	65.4	0.0	0.000E+00	0.000E+00	1.117E-06	
D	5.9	7.42	3000.	0.	112.	203.1	65.4	0.0	0.000E+00	0.000E+00	9.305E-07	
D	7.9	7.24	3000.	0.	112.	203.1	65.4	0.0	0.000E+00	0.000E+00	6.976E-07	
D	9.9	1.26	3000.	0.	112.	203.1	65.4	0.0	0.000E+00	0.000E+00	5.582E-07	
D	24.4	4.31	3000.	0.	112.	203.1	65.4	0.0	0.000E+00	0.000E+00	2.270E-07	
E	0.4	0.06	7000.	0.	112.	310.5	66.2	0.0	0.000E+00	0.000E+00	9.048E-06	
E	0.7	0.06	7000.	0.	112.	310.5	66.2	0.0	0.000E+00	0.000E+00	5.009E-06	
E	1.0	0.30	7000.	0.	112.	310.5	66.2	0.0	0.000E+00	0.000E+00	3.756E-06	
E	1.2	0.18	7000.	0.	112.	310.5	66.2	0.0	0.000E+00	0.000E+00	3.005E-06	
E	1.5	0.36	7000.	0.	112.	310.5	66.2	0.0	0.000E+00	0.000E+00	2.504E-06	
E	2.0	0.60	7000.	0.	112.	310.5	66.2	0.0	0.000E+00	0.000E+00	1.882E-06	

E	3.0	2.15	7000.	0.	112.	310.5	66.2	0.0	0.000E+00	0.000E+00	1.254E-06
E	3.9	2.03	7000.	0.	112.	310.5	66.2	0.0	0.000E+00	0.000E+00	9.402E-07
E	4.9	2.63	7000.	0.	112.	310.5	66.2	0.0	0.000E+00	0.000E+00	7.526E-07
E	5.9	2.69	7000.	0.	112.	310.5	66.2	0.0	0.000E+00	0.000E+00	6.270E-07
E	7.9	2.27	7000.	0.	112.	310.5	66.2	0.0	0.000E+00	0.000E+00	4.701E-07
E	9.8	1.56	7000.	0.	112.	310.5	66.2	0.0	0.000E+00	0.000E+00	3.761E-07
E	24.2	4.91	7000.	0.	112.	310.5	66.2	0.0	0.000E+00	0.000E+00	1.530E-07
F	0.4	0.06	90000.	0.	112.	1000.0	92.1	0.0	0.000E+00	0.000E+00	4.035E-06
F	0.5	0.06	90000.	0.	112.	1000.0	92.1	0.0	0.000E+00	0.000E+00	3.350E-06
F	0.7	0.12	90000.	0.	112.	1000.0	92.1	0.0	0.000E+00	0.000E+00	2.234E-06
F	1.2	0.18	90000.	0.	112.	1000.0	92.1	0.0	0.000E+00	0.000E+00	1.340E-06
F	2.0	0.18	90000.	0.	112.	1000.0	92.1	0.0	0.000E+00	0.000E+00	8.395E-07
F	3.0	0.72	90000.	0.	112.	1000.0	92.1	0.0	0.000E+00	0.000E+00	5.592E-07
F	3.9	1.08	90000.	0.	112.	1000.0	92.1	0.0	0.000E+00	0.000E+00	4.193E-07
F	4.9	1.02	90000.	0.	112.	1000.0	92.1	0.0	0.000E+00	0.000E+00	3.356E-07
F	5.9	0.72	90000.	0.	112.	1000.0	92.1	0.0	0.000E+00	0.000E+00	2.796E-07
F	7.9	0.66	90000.	0.	112.	1000.0	92.1	0.0	0.000E+00	0.000E+00	2.096E-07
F	9.8	0.36	90000.	0.	112.	1000.0	92.1	0.0	0.000E+00	0.000E+00	1.677E-07
F	24.2	0.18	90000.	0.	112.	1000.0	92.1	0.0	0.000E+00	0.000E+00	6.823E-08
G	0.4	0.05	90000.	0.	112.	1000.0	46.0	0.0	0.000E+00	0.000E+00	8.741E-07
G	1.0	0.12	90000.	0.	112.	1000.0	46.0	0.0	0.000E+00	0.000E+00	3.629E-07
G	1.2	0.06	90000.	0.	112.	1000.0	46.0	0.0	0.000E+00	0.000E+00	2.903E-07
G	1.5	0.12	90000.	0.	112.	1000.0	46.0	0.0	0.000E+00	0.000E+00	2.419E-07
G	2.0	0.18	90000.	0.	112.	1000.0	46.0	0.0	0.000E+00	0.000E+00	1.819E-07
G	3.0	1.14	90000.	0.	112.	1000.0	46.0	0.0	0.000E+00	0.000E+00	1.211E-07
G	3.9	1.14	90000.	0.	112.	1000.0	46.0	0.0	0.000E+00	0.000E+00	9.083E-08
G	4.9	1.02	90000.	0.	112.	1000.0	46.0	0.0	0.000E+00	0.000E+00	7.271E-08
G	5.9	1.08	90000.	0.	112.	1000.0	46.0	0.0	0.000E+00	0.000E+00	6.057E-08
G	7.9	0.42	90000.	0.	112.	1000.0	46.0	0.0	0.000E+00	0.000E+00	4.541E-08

USNRC COMPUTER CODE-PAVAN, VERSION 2.0

RUN DATE: 03/14/07

PLANT NAME: Oyster Creek

METEOROLOGICAL INSTRUMENTATION

DATA PERIOD:

WIND SENSORS HEIGHT: 112 meters

TYPE OF RELEASE: Elevated Release

DELTA-T HEIGHTS: 10.1-115.8 meters

SOURCE OF DATA:

COMMENTS: Oyster Creek, Elevated Release, Stack, 1995-1999 met data

PROGRAM: PAVAN, 10/76, 8/79 REVISION, IMPLEMENTATION OF REGULATORY GUIDE 1.145

SITE EXCLUSION BOUNDARY CALCULATIONS:

NW SECTOR BOUNDARY DISTANCE = 414.0 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.

3.340E-05	1.541E-05	1.343E-05	9.048E-06	7.433E-06	6.429E-06	5.575E-06	5.009E-06	4.820E-06	4.629E-06
0.004	0.064	0.182	0.240	0.480	0.540	0.959	1.018	1.078	1.138
0.00014	0.00243	0.00694	0.00918	0.01832	0.02061	0.03661	0.03890	0.04118	0.04347
4.581E-06	4.460E-06	4.035E-06	3.859E-06	3.756E-06	3.717E-06	3.470E-06	3.350E-06	3.215E-06	3.052E-06
1.258	1.557	1.615	1.854	2.153	2.872	3.111	3.171	3.829	4.069
0.04804	0.05947	0.06167	0.07082	0.08225	0.10968	0.11882	0.12111	0.14626	0.15540
3.005E-06	2.794E-06	2.778E-06	2.504E-06	2.410E-06	2.314E-06	2.288E-06	2.234E-06	1.882E-06	1.861E-06
4.248	5.206	6.882	7.241	7.839	9.216	10.712	10.832	11.430	17.655
0.16226	0.19883	0.26284	0.27656	0.29942	0.35199	0.40914	0.41371	0.43657	0.67432
1.832E-06	1.735E-06	1.526E-06	1.395E-06	1.388E-06	1.340E-06	1.254E-06	1.144E-06	1.117E-06	9.402E-07
21.306	22.323	25.316	37.346	37.406	37.585	39.740	41.655	53.386	55.421
0.81376	0.85262	0.96692	1.42640	1.42869	1.43555	1.51784	1.59099	2.03904	2.11677
9.305E-07	9.154E-07	8.741E-07	8.395E-07	7.526E-07	6.976E-07	6.270E-07	5.592E-07	5.582E-07	4.701E-07
62.843	62.902	62.952	63.132	65.765	73.007	75.700	76.419	77.675	79.950
2.40023	2.40251	2.40441	2.41127	2.51185	2.78845	2.89132	2.91875	2.96676	3.05363
4.193E-07	3.761E-07	3.629E-07	3.356E-07	2.903E-07	2.796E-07	2.419E-07	2.270E-07	2.096E-07	1.819E-07
81.027	82.583	82.703	83.720	83.780	84.499	84.618	88.928	89.586	89.765
3.09477	3.15421	3.15878	3.19764	3.19993	3.22736	3.23193	3.39652	3.42167	3.42853
1.677E-07	1.530E-07	1.211E-07	9.083E-08	7.271E-08	6.823E-08	6.057E-08	4.541E-08		
90.125	95.032	96.170	97.307	98.324	98.504	99.581	100.000		
3.44224	3.62969	3.67312	3.71656	3.75542	3.76228	3.80343	3.81943		

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 = 3.340E-05 DISTANCE = 800.000

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)= 0.059  
 HANDCHECK GRAPH: SLOPE LT -1.0 FOR LOW PERCENTAGES. XSAVE ( 4)= 0.110  
 HANDCHECK GRAPH: SLOPE LT -1.0 FOR LOW PERCENTAGES. XSAVE ( 5)= 0.263  
 HANDCHECK GRAPH: SLOPE LT -1.0 FOR LOW PERCENTAGES. XSAVE ( 6)= 0.813  
 HANDCHECK GRAPH: SLOPE LT -1.0 FOR LOW PERCENTAGES. XSAVE ( 7)= 1.425  
 HANDCHECK GRAPH: SLOPE LT -1.0 FOR LOW PERCENTAGES. XSAVE ( 8)= 2.037  
 HANDCHECK GRAPH: SLOPE LT -1.0 FOR LOW PERCENTAGES. XSAVE ( 9)= 2.398

K	I	XQSAVE(K, I)	XQINT(K, I)	XQSLOP(K, I)
7	1	-10.30702	-15.20808	-1.04709
7	2	-11.21821	-18.60205	-1.93779
7	3	-12.32040	-15.62825	-1.02042
7	4	-12.50272	-15.78250	-1.07078
7	5	-12.79371	-15.78951	-1.07329
7	6	-13.21027	-16.28488	-1.27943
7	7	-13.48243	-16.86177	-1.54280
7	8	-13.70491	-19.16566	-2.66874
7	9	-13.88753	NUMXQ(K)= 9	
		5.672E-06	0.038	1.000
		3.665E-06	0.115	3.000
		3.098E-06	0.191	5.000
		2.434E-06	0.382	10.000
		2.096E-06	0.573	15.000
		1.878E-06	0.764	20.000
		1.698E-06	0.955	25.000
		1.555E-06	1.146	30.000
		1.441E-06	1.337	35.000
		1.338E-06	1.528	40.000
		1.244E-06	1.719	45.000
		1.164E-06	1.910	50.000
		1.081E-06	2.101	55.000
		9.805E-07	2.292	60.000
		2.206E-06	0.5	13.09

ANNUAL AVERAGE = 4.58E-09

K= 7 FIVEXQ(K)= 2.206E-06 FIVEPR(K)=13.091

FUMIGATION X/Q AT THE BOUNDARY: 1.07E-04

EXPONENTIAL TERM AND FREQUENCIES

4.773E-01	4.493E-01	4.286E-01	2.388E-01	2.312E-01	1.864E-01	5.166E-02
5.325	7.000	11.433	31.243	84.210	94.683	100.000

USNRC COMPUTER CODE-PAVAN, VERSION 2.0

RUN DATE: 03/14/07

PLANT NAME: Oyster Creek

METEOROLOGICAL INSTRUMENTATION

DATA PERIOD:

WIND SENSORS HEIGHT: 112 meters

TYPE OF RELEASE: Elevated Release

DELTA-T HEIGHTS: 10.1-115.8 meters

SOURCE OF DATA:

COMMENTS: Oyster Creek, Elevated Release, Stack, 1995-1999 met data

PROGRAM: PAVAN, 10/76, 8/79 REVISION, IMPLEMENTATION OF REGULATORY GUIDE 1.145

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

CLASS	METER/SEC	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	USED
AT 112.0 METERS											
A	3.0	0.11	414.	0.	112.	84.5	88.5	0.0	0.000E+00	0.000E+00	6.429E-06
A	5.0	0.11	414.	0.	112.	84.5	88.5	0.0	0.000E+00	0.000E+00	3.859E-06
A	5.9	0.43	414.	0.	112.	84.5	88.5	0.0	0.000E+00	0.000E+00	3.215E-06
A	7.9	0.69	414.	0.	112.	84.5	88.5	0.0	0.000E+00	0.000E+00	2.410E-06
A	9.9	0.21	414.	0.	112.	84.5	88.5	0.0	0.000E+00	0.000E+00	1.928E-06
B	0.4	0.00	800.	0.	112.	115.2	86.0	0.0	0.000E+00	0.000E+00	3.340E-05
B	2.0	0.05	800.	0.	112.	115.2	86.0	0.0	0.000E+00	0.000E+00	6.949E-06
B	3.0	0.16	800.	0.	112.	115.2	86.0	0.0	0.000E+00	0.000E+00	4.629E-06
B	4.0	0.16	800.	0.	112.	115.2	86.0	0.0	0.000E+00	0.000E+00	3.470E-06
B	5.0	0.32	800.	0.	112.	115.2	86.0	0.0	0.000E+00	0.000E+00	2.778E-06
B	5.9	1.55	800.	0.	112.	115.2	86.0	0.0	0.000E+00	0.000E+00	2.314E-06
B	7.9	2.19	800.	0.	112.	115.2	86.0	0.0	0.000E+00	0.000E+00	1.735E-06
B	9.9	0.16	800.	0.	112.	115.2	86.0	0.0	0.000E+00	0.000E+00	1.388E-06
B	24.4	0.05	800.	0.	112.	115.2	86.0	0.0	0.000E+00	0.000E+00	5.647E-07
C	4.0	0.27	1000.	0.	112.	107.0	61.1	0.0	0.000E+00	0.000E+00	2.288E-06
C	5.0	1.18	1000.	0.	112.	107.0	61.1	0.0	0.000E+00	0.000E+00	1.832E-06
C	5.9	2.62	1000.	0.	112.	107.0	61.1	0.0	0.000E+00	0.000E+00	1.526E-06
C	7.9	2.94	1000.	0.	112.	107.0	61.1	0.0	0.000E+00	0.000E+00	1.144E-06
C	9.9	0.27	1000.	0.	112.	107.0	61.1	0.0	0.000E+00	0.000E+00	9.154E-07
D	0.4	0.07	3000.	0.	112.	203.1	65.4	0.0	0.000E+00	0.000E+00	1.343E-05
D	0.7	0.11	3000.	0.	112.	203.1	65.4	0.0	0.000E+00	0.000E+00	7.433E-06
D	1.0	0.16	3000.	0.	112.	203.1	65.4	0.0	0.000E+00	0.000E+00	5.575E-06
D	1.2	0.27	3000.	0.	112.	203.1	65.4	0.0	0.000E+00	0.000E+00	4.460E-06
D	1.5	0.32	3000.	0.	112.	203.1	65.4	0.0	0.000E+00	0.000E+00	3.717E-06
D	2.0	0.96	3000.	0.	112.	203.1	65.4	0.0	0.000E+00	0.000E+00	2.794E-06
D	3.0	2.89	3000.	0.	112.	203.1	65.4	0.0	0.000E+00	0.000E+00	1.861E-06
D	4.0	9.03	3000.	0.	112.	203.1	65.4	0.0	0.000E+00	0.000E+00	1.395E-06
D	5.0	11.65	3000.	0.	112.	203.1	65.4	0.0	0.000E+00	0.000E+00	1.117E-06
D	5.9	10.10	3000.	0.	112.	203.1	65.4	0.0	0.000E+00	0.000E+00	9.305E-07
D	7.9	7.32	3000.	0.	112.	203.1	65.4	0.0	0.000E+00	0.000E+00	6.976E-07
D	9.9	2.67	3000.	0.	112.	203.1	65.4	0.0	0.000E+00	0.000E+00	5.582E-07
D	24.4	2.99	3000.	0.	112.	203.1	65.4	0.0	0.000E+00	0.000E+00	2.270E-07
E	0.4	0.02	7000.	0.	112.	310.5	66.2	0.0	0.000E+00	0.000E+00	9.048E-06
E	1.0	0.11	7000.	0.	112.	310.5	66.2	0.0	0.000E+00	0.000E+00	3.756E-06
E	1.2	0.11	7000.	0.	112.	310.5	66.2	0.0	0.000E+00	0.000E+00	3.005E-06
E	1.5	0.16	7000.	0.	112.	310.5	66.2	0.0	0.000E+00	0.000E+00	2.504E-06
E	2.0	0.37	7000.	0.	112.	310.5	66.2	0.0	0.000E+00	0.000E+00	1.882E-06
E	3.0	1.34	7000.	0.	112.	310.5	66.2	0.0	0.000E+00	0.000E+00	1.254E-06
E	3.9	3.10	7000.	0.	112.	310.5	66.2	0.0	0.000E+00	0.000E+00	9.402E-07

CA= 957.SQ.METERS

E	4.9	3.85	7000.	0.	112.	310.5	66.2	0.0	0.000E+00	0.000E+00	7.526E-07
E	5.9	4.60	7000.	0.	112.	310.5	66.2	0.0	0.000E+00	0.000E+00	6.270E-07
E	7.9	3.26	7000.	0.	112.	310.5	66.2	0.0	0.000E+00	0.000E+00	4.701E-07
E	9.8	2.14	7000.	0.	112.	310.5	66.2	0.0	0.000E+00	0.000E+00	3.761E-07
E	24.2	5.45	7000.	0.	112.	310.5	66.2	0.0	0.000E+00	0.000E+00	1.530E-07
F	0.4	0.02	90000.	0.	112.	1000.0	92.1	0.0	0.000E+00	0.000E+00	4.035E-06
F	1.0	0.05	90000.	0.	112.	1000.0	92.1	0.0	0.000E+00	0.000E+00	1.675E-06
F	1.2	0.05	90000.	0.	112.	1000.0	92.1	0.0	0.000E+00	0.000E+00	1.340E-06
F	1.5	0.11	90000.	0.	112.	1000.0	92.1	0.0	0.000E+00	0.000E+00	1.117E-06
F	2.0	0.21	90000.	0.	112.	1000.0	92.1	0.0	0.000E+00	0.000E+00	8.395E-07
F	3.0	0.80	90000.	0.	112.	1000.0	92.1	0.0	0.000E+00	0.000E+00	5.592E-07
F	3.9	0.80	90000.	0.	112.	1000.0	92.1	0.0	0.000E+00	0.000E+00	4.193E-07
F	4.9	2.03	90000.	0.	112.	1000.0	92.1	0.0	0.000E+00	0.000E+00	3.356E-07
F	5.9	1.18	90000.	0.	112.	1000.0	92.1	0.0	0.000E+00	0.000E+00	2.796E-07
F	7.9	1.28	90000.	0.	112.	1000.0	92.1	0.0	0.000E+00	0.000E+00	2.096E-07
F	9.8	0.43	90000.	0.	112.	1000.0	92.1	0.0	0.000E+00	0.000E+00	1.677E-07
F	24.2	0.64	90000.	0.	112.	1000.0	92.1	0.0	0.000E+00	0.000E+00	6.823E-08
G	0.4	0.04	90000.	0.	112.	1000.0	46.0	0.0	0.000E+00	0.000E+00	8.741E-07
G	0.7	0.05	90000.	0.	112.	1000.0	46.0	0.0	0.000E+00	0.000E+00	4.839E-07
G	1.2	0.11	90000.	0.	112.	1000.0	46.0	0.0	0.000E+00	0.000E+00	2.903E-07
G	1.5	0.11	90000.	0.	112.	1000.0	46.0	0.0	0.000E+00	0.000E+00	2.419E-07
G	2.0	0.05	90000.	0.	112.	1000.0	46.0	0.0	0.000E+00	0.000E+00	1.819E-07
G	3.0	0.86	90000.	0.	112.	1000.0	46.0	0.0	0.000E+00	0.000E+00	1.211E-07
G	3.9	1.87	90000.	0.	112.	1000.0	46.0	0.0	0.000E+00	0.000E+00	9.083E-08
G	4.9	1.39	90000.	0.	112.	1000.0	46.0	0.0	0.000E+00	0.000E+00	7.271E-08
G	5.9	0.48	90000.	0.	112.	1000.0	46.0	0.0	0.000E+00	0.000E+00	6.057E-08
G	7.9	0.80	90000.	0.	112.	1000.0	46.0	0.0	0.000E+00	0.000E+00	4.541E-08
G	9.8	0.11	90000.	0.	112.	1000.0	46.0	0.0	0.000E+00	0.000E+00	3.634E-08

USNRC COMPUTER CODE-PAVAN, VERSION 2.0

RUN DATE: 03/14/07

PLANT NAME: Oyster Creek  
 DATA PERIOD:  
 TYPE OF RELEASE: Elevated Release  
 SOURCE OF DATA:  
 COMMENTS: Oyster Creek, Elevated Release, Stack, 1995-1999 met data  
 PROGRAM: PAVAN, 10/76, 8/79 REVISION, IMPLEMENTATION OF REGULATORY GUIDE 1.145

METEOROLOGICAL INSTRUMENTATION  
 WIND SENSORS HEIGHT: 112 meters  
 DELTA-T HEIGHTS: 10.1-115.8 meters

SITE EXCLUSION BOUNDARY CALCULATIONS:

NNW SECTOR BOUNDARY DISTANCE = 414.0 METERS  
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BELOW ARE PRINTED THE ORDERED VALUES OF CHI/Q AND THE FREQUENCY WITH WHICH THAT VALUE IS REACHED OR EXCEEDED.  
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3.340E-05	1.343E-05	9.048E-06	7.433E-06	6.949E-06	6.429E-06	5.575E-06	4.629E-06	4.460E-06	4.035E-06
0.003	0.069	0.093	0.199	0.253	0.360	0.520	0.680	0.948	0.965
0.00014	0.00296	0.00396	0.00853	0.01081	0.01539	0.02224	0.02910	0.04053	0.04127
3.859E-06	3.756E-06	3.717E-06	3.470E-06	3.215E-06	3.005E-06	2.794E-06	2.778E-06	2.504E-06	2.410E-06
1.072	1.179	1.499	1.660	2.087	2.194	3.156	3.477	3.637	4.332
0.04584	0.05041	0.06413	0.07099	0.08927	0.09384	0.13499	0.14871	0.15557	0.18528
2.314E-06	2.288E-06	1.928E-06	1.882E-06	1.861E-06	1.832E-06	1.735E-06	1.675E-06	1.526E-06	1.395E-06
5.882	6.150	6.363	6.738	9.624	10.800	12.991	13.045	15.664	24.697
0.25158	0.26301	0.27215	0.28815	0.41160	0.46189	0.55561	0.55790	0.66991	1.05624
1.388E-06	1.340E-06	1.254E-06	1.144E-06	1.117E-06	1.117E-06	9.402E-07	9.305E-07	9.154E-07	8.741E-07
24.857	24.911	26.247	29.187	40.839	40.946	44.046	54.148	54.416	54.460
1.06310	1.06538	1.12253	1.24826	1.74661	1.75118	1.88376	2.31581	2.32724	2.32914
8.395E-07	7.526E-07	6.976E-07	6.270E-07	5.647E-07	5.592E-07	5.582E-07	4.839E-07	4.701E-07	4.193E-07
54.674	58.522	65.845	70.442	70.495	71.297	73.969	74.023	77.283	78.085
2.33828	2.50287	2.81605	3.01264	3.01493	3.04922	3.16352	3.16581	3.30525	3.33954
3.761E-07	3.356E-07	2.903E-07	2.796E-07	2.419E-07	2.270E-07	2.096E-07	1.819E-07	1.677E-07	1.530E-07
80.223	82.254	82.361	83.537	83.644	86.637	87.920	87.974	88.401	93.853
3.43098	3.51785	3.52242	3.57271	3.57728	3.70530	3.76016	3.76244	3.78073	4.01390
1.211E-07	9.083E-08	7.271E-08	6.823E-08	6.057E-08	4.541E-08	3.634E-08			
94.708	96.579	97.969	98.610	99.091	99.893	100.000			
4.05048	4.13049	4.18992	4.21735	4.23793	4.27222	4.27679			

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 = 3.340E-05      DISTANCE = 800.000

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)= 0.003  
 HANDCHECK GRAPH: SLOPE LT -1.0 FOR LOW PERCENTAGES. XSAVE ( 3)= 0.041  
 HANDCHECK GRAPH: SLOPE LT -1.0 FOR LOW PERCENTAGES. XSAVE ( 4)= 0.149  
 HANDCHECK GRAPH: SLOPE LT -1.0 FOR LOW PERCENTAGES. XSAVE ( 5)= 0.263  
 HANDCHECK GRAPH: SLOPE LT -1.0 FOR LOW PERCENTAGES. XSAVE ( 6)= 1.055  
 HANDCHECK GRAPH: SLOPE LT -1.0 FOR LOW PERCENTAGES. XSAVE ( 7)= 1.749  
 HANDCHECK GRAPH: SLOPE LT -1.0 FOR LOW PERCENTAGES. XSAVE ( 8)= 2.313

K	I	XQSAVE(K, I)	XQINT(K, I)	XQSLOP(K, I)
8	1	-10.30702	-16.72289	-1.37072
8	2	-11.21821	-17.85875	-1.65356
8	3	-12.32040	-16.50731	-1.25007
8	4	-12.79371	-16.00223	-1.08005
8	5	-12.98780	-15.83525	-1.02022
8	6	-13.48243	-16.07943	-1.12610
8	7	-13.70502	-17.03416	-1.57890
8	8	-13.88753	NUMXQ(K)= 8	
		4.378E-06	0.043	1.000
		2.939E-06	0.128	3.000
		2.458E-06	0.214	5.000
		1.941E-06	0.428	10.000
		1.681E-06	0.642	15.000
		1.512E-06	0.855	20.000
		1.388E-06	1.069	25.000
		1.283E-06	1.283	30.000
		1.199E-06	1.497	35.000
		1.129E-06	1.711	40.000
		1.051E-06	1.925	45.000
		9.810E-07	2.138	50.000
		1.838E-06	0.5	11.69

ANNUAL AVERAGE = 4.13E-09

K= 8 FIVEXQ(K)= 1.838E-06 FIVEPR(K)=11.691

FUMIGATION X/Q AT THE BOUNDARY: 1.07E-04

EXPONENTIAL TERM AND FREQUENCIES

4.773E-01	4.493E-01	4.286E-01	2.388E-01	2.312E-01	1.864E-01	5.166E-02
7.607	9.157	13.811	38.315	86.860	94.130	100.000

USNRC COMPUTER CODE-PAVAN, VERSION 2.0

RUN DATE: 03/14/07

PLANT NAME: Oyster Creek

METEOROLOGICAL INSTRUMENTATION

DATA PERIOD:

WIND SENSORS HEIGHT: 112 meters

TYPE OF RELEASE: Elevated Release

DELTA-T HEIGHTS: 10.1-115.8 meters

SOURCE OF DATA:

COMMENTS: Oyster Creek, Elevated Release, Stack, 1995-1999 met data

PROGRAM: PAVAN, 10/76, 8/79 REVISION, IMPLEMENTATION OF REGULATORY GUIDE 1.145

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

CLASS	METER/SEC	PERCENT	METERS	METERS	METERS	SIGMA-Y METERS	SIGMA-Z METERS	MEANDER-SY METERS	** CHI/Q VALUES (SEC/CUBIC METER)			
									MEANDER	BLDG WAKE	USED	
AT 112.0 METERS												
A	3.0	0.04	414.	0.	112.	84.5	88.5	0.0	0.000E+00	0.000E+00	6.429E-06	
A	5.0	0.04	414.	0.	112.	84.5	88.5	0.0	0.000E+00	0.000E+00	3.859E-06	
A	5.9	0.18	414.	0.	112.	84.5	88.5	0.0	0.000E+00	0.000E+00	3.215E-06	
A	7.9	0.67	414.	0.	112.	84.5	88.5	0.0	0.000E+00	0.000E+00	2.410E-06	
A	9.9	0.42	414.	0.	112.	84.5	88.5	0.0	0.000E+00	0.000E+00	1.928E-06	
A	24.4	0.14	414.	0.	112.	84.5	88.5	0.0	0.000E+00	0.000E+00	7.844E-07	
B	0.4	0.00	800.	0.	112.	115.2	86.0	0.0	0.000E+00	0.000E+00	3.340E-05	
B	2.0	0.04	800.	0.	112.	115.2	86.0	0.0	0.000E+00	0.000E+00	6.949E-06	
B	3.0	0.04	800.	0.	112.	115.2	86.0	0.0	0.000E+00	0.000E+00	4.629E-06	
B	5.0	0.14	800.	0.	112.	115.2	86.0	0.0	0.000E+00	0.000E+00	2.778E-06	
B	5.9	0.60	800.	0.	112.	115.2	86.0	0.0	0.000E+00	0.000E+00	2.314E-06	
B	7.9	1.65	800.	0.	112.	115.2	86.0	0.0	0.000E+00	0.000E+00	1.735E-06	
B	9.9	1.33	800.	0.	112.	115.2	86.0	0.0	0.000E+00	0.000E+00	1.388E-06	
B	24.4	0.32	800.	0.	112.	115.2	86.0	0.0	0.000E+00	0.000E+00	5.647E-07	
C	2.0	0.07	1000.	0.	112.	107.0	61.1	0.0	0.000E+00	0.000E+00	4.581E-06	
C	3.0	0.07	1000.	0.	112.	107.0	61.1	0.0	0.000E+00	0.000E+00	3.052E-06	
C	4.0	0.14	1000.	0.	112.	107.0	61.1	0.0	0.000E+00	0.000E+00	2.288E-06	
C	5.0	0.39	1000.	0.	112.	107.0	61.1	0.0	0.000E+00	0.000E+00	1.832E-06	
C	5.9	1.09	1000.	0.	112.	107.0	61.1	0.0	0.000E+00	0.000E+00	1.526E-06	
C	7.9	2.98	1000.	0.	112.	107.0	61.1	0.0	0.000E+00	0.000E+00	1.144E-06	
C	9.9	0.98	1000.	0.	112.	107.0	61.1	0.0	0.000E+00	0.000E+00	9.154E-07	
C	24.4	0.28	1000.	0.	112.	107.0	61.1	0.0	0.000E+00	0.000E+00	3.723E-07	
D	0.4	0.03	3000.	0.	112.	203.1	65.4	0.0	0.000E+00	0.000E+00	1.343E-05	
D	0.7	0.07	3000.	0.	112.	203.1	65.4	0.0	0.000E+00	0.000E+00	7.433E-06	
D	1.2	0.14	3000.	0.	112.	203.1	65.4	0.0	0.000E+00	0.000E+00	4.460E-06	
D	1.5	0.25	3000.	0.	112.	203.1	65.4	0.0	0.000E+00	0.000E+00	3.717E-06	
D	2.0	0.39	3000.	0.	112.	203.1	65.4	0.0	0.000E+00	0.000E+00	2.794E-06	
D	3.0	2.07	3000.	0.	112.	203.1	65.4	0.0	0.000E+00	0.000E+00	1.861E-06	
D	4.0	3.89	3000.	0.	112.	203.1	65.4	0.0	0.000E+00	0.000E+00	1.395E-06	
D	5.0	7.29	3000.	0.	112.	203.1	65.4	0.0	0.000E+00	0.000E+00	1.117E-06	
D	5.9	8.55	3000.	0.	112.	203.1	65.4	0.0	0.000E+00	0.000E+00	9.305E-07	
D	7.9	11.89	3000.	0.	112.	203.1	65.4	0.0	0.000E+00	0.000E+00	6.976E-07	
D	9.9	6.14	3000.	0.	112.	203.1	65.4	0.0	0.000E+00	0.000E+00	5.582E-07	
D	24.4	5.50	3000.	0.	112.	203.1	65.4	0.0	0.000E+00	0.000E+00	2.270E-07	
E	0.4	0.02	7000.	0.	112.	310.5	66.2	0.0	0.000E+00	0.000E+00	9.048E-06	
E	0.7	0.04	7000.	0.	112.	310.5	66.2	0.0	0.000E+00	0.000E+00	5.009E-06	
E	1.0	0.11	7000.	0.	112.	310.5	66.2	0.0	0.000E+00	0.000E+00	3.756E-06	
E	1.2	0.04	7000.	0.	112.	310.5	66.2	0.0	0.000E+00	0.000E+00	3.005E-06	
E	1.5	0.18	7000.	0.	112.	310.5	66.2	0.0	0.000E+00	0.000E+00	2.504E-06	

CA= 957.SQ.METERS

E	2.0	0.32	7000.	0.	112.	310.5	66.2	0.0	0.000E+00	0.000E+00	1.882E-06
E	3.0	0.95	7000.	0.	112.	310.5	66.2	0.0	0.000E+00	0.000E+00	1.254E-06
E	3.9	1.47	7000.	0.	112.	310.5	66.2	0.0	0.000E+00	0.000E+00	9.402E-07
E	4.9	3.30	7000.	0.	112.	310.5	66.2	0.0	0.000E+00	0.000E+00	7.526E-07
E	5.9	3.82	7000.	0.	112.	310.5	66.2	0.0	0.000E+00	0.000E+00	6.270E-07
E	7.9	7.08	7000.	0.	112.	310.5	66.2	0.0	0.000E+00	0.000E+00	4.701E-07
E	9.8	4.66	7000.	0.	112.	310.5	66.2	0.0	0.000E+00	0.000E+00	3.761E-07
E	24.2	4.35	7000.	0.	112.	310.5	66.2	0.0	0.000E+00	0.000E+00	1.530E-07
F	0.4	0.03	90000.	0.	112.	1000.0	92.1	0.0	0.000E+00	0.000E+00	4.035E-06
F	0.5	0.04	90000.	0.	112.	1000.0	92.1	0.0	0.000E+00	0.000E+00	3.350E-06
F	1.0	0.14	90000.	0.	112.	1000.0	92.1	0.0	0.000E+00	0.000E+00	1.675E-06
F	1.2	0.04	90000.	0.	112.	1000.0	92.1	0.0	0.000E+00	0.000E+00	1.340E-06
F	1.5	0.11	90000.	0.	112.	1000.0	92.1	0.0	0.000E+00	0.000E+00	1.117E-06
F	2.0	0.11	90000.	0.	112.	1000.0	92.1	0.0	0.000E+00	0.000E+00	8.395E-07
F	3.0	0.60	90000.	0.	112.	1000.0	92.1	0.0	0.000E+00	0.000E+00	5.592E-07
F	3.9	1.12	90000.	0.	112.	1000.0	92.1	0.0	0.000E+00	0.000E+00	4.193E-07
F	4.9	1.61	90000.	0.	112.	1000.0	92.1	0.0	0.000E+00	0.000E+00	3.356E-07
F	5.9	1.44	90000.	0.	112.	1000.0	92.1	0.0	0.000E+00	0.000E+00	2.796E-07
F	7.9	1.96	90000.	0.	112.	1000.0	92.1	0.0	0.000E+00	0.000E+00	2.096E-07
F	9.8	0.84	90000.	0.	112.	1000.0	92.1	0.0	0.000E+00	0.000E+00	1.677E-07
F	24.2	0.39	90000.	0.	112.	1000.0	92.1	0.0	0.000E+00	0.000E+00	6.823E-08
G	0.4	0.07	90000.	0.	112.	1000.0	46.0	0.0	0.000E+00	0.000E+00	8.741E-07
G	0.7	0.11	90000.	0.	112.	1000.0	46.0	0.0	0.000E+00	0.000E+00	4.839E-07
G	1.0	0.04	90000.	0.	112.	1000.0	46.0	0.0	0.000E+00	0.000E+00	3.629E-07
G	1.2	0.11	90000.	0.	112.	1000.0	46.0	0.0	0.000E+00	0.000E+00	2.903E-07
G	1.5	0.04	90000.	0.	112.	1000.0	46.0	0.0	0.000E+00	0.000E+00	2.419E-07
G	2.0	0.39	90000.	0.	112.	1000.0	46.0	0.0	0.000E+00	0.000E+00	1.819E-07
G	3.0	1.02	90000.	0.	112.	1000.0	46.0	0.0	0.000E+00	0.000E+00	1.211E-07
G	3.9	1.16	90000.	0.	112.	1000.0	46.0	0.0	0.000E+00	0.000E+00	9.083E-08
G	4.9	1.54	90000.	0.	112.	1000.0	46.0	0.0	0.000E+00	0.000E+00	7.271E-08
G	5.9	1.51	90000.	0.	112.	1000.0	46.0	0.0	0.000E+00	0.000E+00	6.057E-08
G	7.9	1.05	90000.	0.	112.	1000.0	46.0	0.0	0.000E+00	0.000E+00	4.541E-08
G	9.8	0.46	90000.	0.	112.	1000.0	46.0	0.0	0.000E+00	0.000E+00	3.634E-08
G	24.2	0.04	90000.	0.	112.	1000.0	46.0	0.0	0.000E+00	0.000E+00	1.478E-08

USNRC COMPUTER CODE-PAVAN, VERSION 2.0

RUN DATE: 03/14/07

PLANT NAME: Oyster Creek

METEOROLOGICAL INSTRUMENTATION

DATA PERIOD:

WIND SENSORS HEIGHT: 112 meters

TYPE OF RELEASE: Elevated Release

DELTA-T HEIGHTS: 10.1-115.8 meters

SOURCE OF DATA:

COMMENTS: Oyster Creek, Elevated Release, Stack, 1995-1999 met data

PROGRAM: PAVAN, 10/76, 8/79 REVISION, IMPLEMENTATION OF REGULATORY GUIDE 1.145

SITE EXCLUSION BOUNDARY CALCULATIONS:

N SECTOR BOUNDARY DISTANCE = 414.0 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.

3.340E-05	1.343E-05	9.048E-06	7.433E-06	6.949E-06	6.429E-06	5.009E-06	4.629E-06	4.581E-06	4.460E-06
0.002	0.028	0.047	0.117	0.152	0.187	0.223	0.258	0.328	0.468
0.00014	0.00183	0.00308	0.00765	0.00994	0.01222	0.01451	0.01679	0.02137	0.03051
4.035E-06	3.859E-06	3.756E-06	3.717E-06	3.350E-06	3.215E-06	3.052E-06	3.005E-06	2.794E-06	2.778E-06
0.502	0.537	0.642	0.887	0.922	1.098	1.168	1.203	1.589	1.729
0.03271	0.03500	0.04186	0.05786	0.06015	0.07158	0.07615	0.07843	0.10358	0.11272
2.504E-06	2.410E-06	2.314E-06	2.288E-06	1.928E-06	1.882E-06	1.861E-06	1.832E-06	1.735E-06	1.675E-06
1.904	2.570	3.166	3.307	3.727	4.043	6.111	6.497	8.145	8.285
0.12415	0.16759	0.20645	0.21559	0.24302	0.26360	0.39847	0.42362	0.53106	0.54020
1.526E-06	1.395E-06	1.388E-06	1.340E-06	1.254E-06	1.144E-06	1.117E-06	1.117E-06	9.402E-07	9.305E-07
9.372	13.264	14.596	14.631	15.578	18.558	25.850	25.955	27.428	35.983
0.61107	0.86481	0.95168	0.95396	1.01568	1.20999	1.68547	1.69233	1.78834	2.34612
9.154E-07	8.741E-07	8.395E-07	7.844E-07	7.526E-07	6.976E-07	6.270E-07	5.647E-07	5.592E-07	5.582E-07
36.964	37.032	37.137	37.277	40.573	52.459	56.280	56.596	57.192	63.327
2.41013	2.41455	2.42141	2.43055	2.64543	3.42038	3.66955	3.69012	3.72899	4.12903
4.839E-07	4.701E-07	4.193E-07	3.761E-07	3.723E-07	3.629E-07	3.356E-07	2.903E-07	2.796E-07	2.419E-07
63.432	70.514	71.636	76.299	76.580	76.615	78.228	78.333	79.770	79.805
4.13589	4.59766	4.67081	4.97484	4.99313	4.99542	5.10057	5.10743	5.20115	5.20344
2.270E-07	2.096E-07	1.819E-07	1.677E-07	1.530E-07	1.211E-07	9.083E-08	7.271E-08	6.823E-08	6.057E-08
85.310	87.273	87.659	88.500	92.848	93.864	95.021	96.564	96.950	98.457
5.56234	5.69035	5.71550	5.77036	6.05382	6.12012	6.19555	6.29614	6.32128	6.41958
4.541E-08	3.634E-08	1.478E-08							
99.509	99.965	100.000							
6.48816	6.51788	6.52016							

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 = 3.340E-05      DISTANCE = 800.000

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)= 0.030  
 HANDCHECK GRAPH: SLOPE LT -1.0 FOR LOW PERCENTAGES. XSAVE ( 3)= 0.058  
 HANDCHECK GRAPH: SLOPE LT -1.0 FOR LOW PERCENTAGES. XSAVE ( 4)= 0.206  
 HANDCHECK GRAPH: SLOPE LT -1.0 FOR LOW PERCENTAGES. XSAVE ( 7)= 1.690  
 HANDCHECK GRAPH: SLOPE LT -1.0 FOR LOW PERCENTAGES. XSAVE ( 8)= 2.344

K	I	XQSAVE(K, I)	XQINT(K, I)	XQSLOP(K, I)
9	1	-10.30702	-17.82556	-1.60630
9	2	-12.32040	-15.83554	-1.02565
9	3	-12.50272	-16.54222	-1.24313
9	4	-12.97633	-15.36987	-0.83442
9	5	-12.98780	-15.62495	-0.92378
9	6	-13.26439	-15.86475	-1.01762
9	7	-13.70502	-16.57634	-1.35291
9	8	-13.88753	NUMXQ(K)= 8	
		3.562E-06	0.065	1.000
		2.364E-06	0.196	3.000
		2.022E-06	0.326	5.000
		1.612E-06	0.652	10.000
		1.387E-06	0.978	15.000
		1.240E-06	1.304	20.000
		1.134E-06	1.630	25.000
		1.031E-06	1.956	30.000
		9.454E-07	2.282	35.000
		1.769E-06	0.5	7.67

ANNUAL AVERAGE = 4.67E-09

K= 9 FIVEXQ(K)= 1.769E-06 FIVEPR(K)= 7.669

FUMIGATION X/Q AT THE BOUNDARY: 1.07E-04

EXPONENTIAL TERM AND FREQUENCIES

4.773E-01	4.493E-01	4.286E-01	2.388E-01	2.312E-01	1.864E-01	5.166E-02
8.413	9.886	13.990	40.304	86.504	92.499	100.000

USNRC COMPUTER CODE-PAVAN, VERSION 2.0

RUN DATE: 03/14/07

PLANT NAME: Oyster Creek

METEOROLOGICAL INSTRUMENTATION

DATA PERIOD:

WIND SENSORS HEIGHT: 112 meters

TYPE OF RELEASE: Elevated Release

DELTA-T HEIGHTS: 10.1-115.8 meters

SOURCE OF DATA:

COMMENTS: Oyster Creek, Elevated Release, Stack, 1995-1999 met data

PROGRAM: PAVAN, 10/76, 8/79 REVISION, IMPLEMENTATION OF REGULATORY GUIDE 1.145

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

CLASS	METER/SEC	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	USED
AT 112.0 METERS											
A	3.0	0.03	414.	0.	112.	84.5	88.5	0.0	0.000E+00	0.000E+00	6.429E-06
A	4.0	0.03	414.	0.	112.	84.5	88.5	0.0	0.000E+00	0.000E+00	4.820E-06
A	5.0	0.05	414.	0.	112.	84.5	88.5	0.0	0.000E+00	0.000E+00	3.859E-06
A	5.9	0.11	414.	0.	112.	84.5	88.5	0.0	0.000E+00	0.000E+00	3.215E-06
A	7.9	0.32	414.	0.	112.	84.5	88.5	0.0	0.000E+00	0.000E+00	2.410E-06
A	9.9	0.32	414.	0.	112.	84.5	88.5	0.0	0.000E+00	0.000E+00	1.928E-06
A	24.4	0.11	414.	0.	112.	84.5	88.5	0.0	0.000E+00	0.000E+00	7.844E-07
B	0.4	0.00	800.	0.	112.	115.2	86.0	0.0	0.000E+00	0.000E+00	3.340E-05
B	2.0	0.03	800.	0.	112.	115.2	86.0	0.0	0.000E+00	0.000E+00	6.949E-06
B	4.0	0.05	800.	0.	112.	115.2	86.0	0.0	0.000E+00	0.000E+00	3.470E-06
B	5.0	0.05	800.	0.	112.	115.2	86.0	0.0	0.000E+00	0.000E+00	2.778E-06
B	5.9	0.14	800.	0.	112.	115.2	86.0	0.0	0.000E+00	0.000E+00	2.314E-06
B	7.9	0.76	800.	0.	112.	115.2	86.0	0.0	0.000E+00	0.000E+00	1.735E-06
B	9.9	0.68	800.	0.	112.	115.2	86.0	0.0	0.000E+00	0.000E+00	1.388E-06
B	24.4	0.41	800.	0.	112.	115.2	86.0	0.0	0.000E+00	0.000E+00	5.647E-07
C	0.5	0.03	1000.	0.	112.	107.0	61.1	0.0	0.000E+00	0.000E+00	1.828E-05
C	2.0	0.03	1000.	0.	112.	107.0	61.1	0.0	0.000E+00	0.000E+00	4.581E-06
C	3.0	0.11	1000.	0.	112.	107.0	61.1	0.0	0.000E+00	0.000E+00	3.052E-06
C	4.0	0.24	1000.	0.	112.	107.0	61.1	0.0	0.000E+00	0.000E+00	2.288E-06
C	5.0	0.27	1000.	0.	112.	107.0	61.1	0.0	0.000E+00	0.000E+00	1.832E-06
C	5.9	0.32	1000.	0.	112.	107.0	61.1	0.0	0.000E+00	0.000E+00	1.526E-06
C	7.9	1.49	1000.	0.	112.	107.0	61.1	0.0	0.000E+00	0.000E+00	1.144E-06
C	9.9	0.95	1000.	0.	112.	107.0	61.1	0.0	0.000E+00	0.000E+00	9.154E-07
C	24.4	0.76	1000.	0.	112.	107.0	61.1	0.0	0.000E+00	0.000E+00	3.723E-07
D	0.4	0.02	3000.	0.	112.	203.1	65.4	0.0	0.000E+00	0.000E+00	1.343E-05
D	1.0	0.16	3000.	0.	112.	203.1	65.4	0.0	0.000E+00	0.000E+00	5.575E-06
D	1.5	0.22	3000.	0.	112.	203.1	65.4	0.0	0.000E+00	0.000E+00	3.717E-06
D	2.0	0.30	3000.	0.	112.	203.1	65.4	0.0	0.000E+00	0.000E+00	2.794E-06
D	3.0	1.46	3000.	0.	112.	203.1	65.4	0.0	0.000E+00	0.000E+00	1.861E-06
D	4.0	2.35	3000.	0.	112.	203.1	65.4	0.0	0.000E+00	0.000E+00	1.395E-06
D	5.0	3.19	3000.	0.	112.	203.1	65.4	0.0	0.000E+00	0.000E+00	1.117E-06
D	5.9	4.35	3000.	0.	112.	203.1	65.4	0.0	0.000E+00	0.000E+00	9.305E-07
D	7.9	11.96	3000.	0.	112.	203.1	65.4	0.0	0.000E+00	0.000E+00	6.976E-07
D	9.9	8.21	3000.	0.	112.	203.1	65.4	0.0	0.000E+00	0.000E+00	5.582E-07
D	24.4	7.32	3000.	0.	112.	203.1	65.4	0.0	0.000E+00	0.000E+00	2.270E-07
E	0.4	0.01	7000.	0.	112.	310.5	66.2	0.0	0.000E+00	0.000E+00	9.048E-06
E	0.7	0.08	7000.	0.	112.	310.5	66.2	0.0	0.000E+00	0.000E+00	5.009E-06
E	1.2	0.05	7000.	0.	112.	310.5	66.2	0.0	0.000E+00	0.000E+00	3.005E-06
E	1.5	0.14	7000.	0.	112.	310.5	66.2	0.0	0.000E+00	0.000E+00	2.504E-06

E	2.0	0.27	7000.	0.	112.	310.5	66.2	0.0	0.000E+00	0.000E+00	1.882E-06
E	3.0	0.81	7000.	0.	112.	310.5	66.2	0.0	0.000E+00	0.000E+00	1.254E-06
E	3.9	1.43	7000.	0.	112.	310.5	66.2	0.0	0.000E+00	0.000E+00	9.402E-07
E	4.9	2.46	7000.	0.	112.	310.5	66.2	0.0	0.000E+00	0.000E+00	7.526E-07
E	5.9	3.16	7000.	0.	112.	310.5	66.2	0.0	0.000E+00	0.000E+00	6.270E-07
E	7.9	12.56	7000.	0.	112.	310.5	66.2	0.0	0.000E+00	0.000E+00	4.701E-07
E	9.8	10.53	7000.	0.	112.	310.5	66.2	0.0	0.000E+00	0.000E+00	3.761E-07
E	24.2	6.10	7000.	0.	112.	310.5	66.2	0.0	0.000E+00	0.000E+00	1.530E-07
F	0.4	0.01	90000.	0.	112.	1000.0	92.1	0.0	0.000E+00	0.000E+00	4.035E-06
F	0.7	0.05	90000.	0.	112.	1000.0	92.1	0.0	0.000E+00	0.000E+00	2.234E-06
F	1.2	0.03	90000.	0.	112.	1000.0	92.1	0.0	0.000E+00	0.000E+00	1.340E-06
F	1.5	0.03	90000.	0.	112.	1000.0	92.1	0.0	0.000E+00	0.000E+00	1.117E-06
F	2.0	0.11	90000.	0.	112.	1000.0	92.1	0.0	0.000E+00	0.000E+00	8.395E-07
F	3.0	0.38	90000.	0.	112.	1000.0	92.1	0.0	0.000E+00	0.000E+00	5.592E-07
F	3.9	0.59	90000.	0.	112.	1000.0	92.1	0.0	0.000E+00	0.000E+00	4.193E-07
F	4.9	1.08	90000.	0.	112.	1000.0	92.1	0.0	0.000E+00	0.000E+00	3.356E-07
F	5.9	1.24	90000.	0.	112.	1000.0	92.1	0.0	0.000E+00	0.000E+00	2.796E-07
F	7.9	2.67	90000.	0.	112.	1000.0	92.1	0.0	0.000E+00	0.000E+00	2.096E-07
F	9.8	2.08	90000.	0.	112.	1000.0	92.1	0.0	0.000E+00	0.000E+00	1.677E-07
F	24.2	1.03	90000.	0.	112.	1000.0	92.1	0.0	0.000E+00	0.000E+00	6.823E-08
G	0.4	0.02	90000.	0.	112.	1000.0	46.0	0.0	0.000E+00	0.000E+00	8.741E-07
G	0.5	0.03	90000.	0.	112.	1000.0	46.0	0.0	0.000E+00	0.000E+00	7.258E-07
G	1.0	0.03	90000.	0.	112.	1000.0	46.0	0.0	0.000E+00	0.000E+00	3.629E-07
G	1.2	0.03	90000.	0.	112.	1000.0	46.0	0.0	0.000E+00	0.000E+00	2.903E-07
G	1.5	0.05	90000.	0.	112.	1000.0	46.0	0.0	0.000E+00	0.000E+00	2.419E-07
G	2.0	0.24	90000.	0.	112.	1000.0	46.0	0.0	0.000E+00	0.000E+00	1.819E-07
G	3.0	0.73	90000.	0.	112.	1000.0	46.0	0.0	0.000E+00	0.000E+00	1.211E-07
G	3.9	0.70	90000.	0.	112.	1000.0	46.0	0.0	0.000E+00	0.000E+00	9.083E-08
G	4.9	1.11	90000.	0.	112.	1000.0	46.0	0.0	0.000E+00	0.000E+00	7.271E-08
G	5.9	0.86	90000.	0.	112.	1000.0	46.0	0.0	0.000E+00	0.000E+00	6.057E-08
G	7.9	1.54	90000.	0.	112.	1000.0	46.0	0.0	0.000E+00	0.000E+00	4.541E-08
G	9.8	0.65	90000.	0.	112.	1000.0	46.0	0.0	0.000E+00	0.000E+00	3.634E-08
G	24.2	0.30	90000.	0.	112.	1000.0	46.0	0.0	0.000E+00	0.000E+00	1.478E-08

USNRC COMPUTER CODE-PAVAN, VERSION 2.0

RUN DATE: 03/14/07

PLANT NAME: Oyster Creek

METEOROLOGICAL INSTRUMENTATION

DATA PERIOD:

WIND SENSORS HEIGHT: 112 meters

TYPE OF RELEASE: Elevated Release

DELTA-T HEIGHTS: 10.1-115.8 meters

SOURCE OF DATA:

COMMENTS: Oyster Creek, Elevated Release, Stack, 1995-1999 met data

PROGRAM: PAVAN, 10/76, 8/79 REVISION, IMPLEMENTATION OF REGULATORY GUIDE 1.145

SITE EXCLUSION BOUNDARY CALCULATIONS:

NNE SECTOR BOUNDARY DISTANCE = 414.0 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.

3.340E-05	1.828E-05	1.343E-05	9.048E-06	6.949E-06	6.429E-06	5.575E-06	5.009E-06	4.820E-06	4.581E-06
0.002	0.029	0.049	0.063	0.090	0.117	0.279	0.360	0.387	0.414
0.00014	0.00243	0.00412	0.00536	0.00765	0.00994	0.02365	0.03051	0.03280	0.03508
4.035E-06	3.859E-06	3.717E-06	3.470E-06	3.215E-06	3.052E-06	3.005E-06	2.794E-06	2.778E-06	2.504E-06
0.428	0.482	0.698	0.752	0.860	0.968	1.022	1.319	1.373	1.508
0.03618	0.04076	0.05904	0.06362	0.07276	0.08190	0.08648	0.11162	0.11619	0.12762
2.410E-06	2.314E-06	2.288E-06	2.234E-06	1.928E-06	1.882E-06	1.861E-06	1.832E-06	1.735E-06	1.526E-06
1.832	1.967	2.210	2.264	2.588	2.858	4.317	4.587	5.343	5.667
0.15506	0.16649	0.18706	0.19163	0.21906	0.24192	0.36536	0.38822	0.45223	0.47966
1.395E-06	1.388E-06	1.340E-06	1.254E-06	1.144E-06	1.117E-06	1.117E-06	9.402E-07	9.305E-07	9.154E-07
8.017	8.692	8.719	9.529	11.014	14.201	14.228	15.660	20.008	20.953
0.67854	0.73569	0.73798	0.80656	0.93229	1.20203	1.20432	1.32547	1.69352	1.77353
8.741E-07	8.395E-07	7.844E-07	7.526E-07	7.258E-07	6.976E-07	6.270E-07	5.647E-07	5.592E-07	5.582E-07
20.976	21.084	21.192	23.649	23.676	35.641	38.801	39.206	39.584	47.794
1.77542	1.78456	1.79371	2.00173	2.00402	3.01671	3.28416	3.31845	3.35046	4.04539
4.701E-07	4.193E-07	3.761E-07	3.723E-07	3.629E-07	3.356E-07	2.903E-07	2.796E-07	2.419E-07	2.270E-07
60.353	60.947	71.480	72.236	72.263	73.343	73.370	74.613	74.667	81.986
5.10837	5.15866	6.05019	6.11420	6.11649	6.20793	6.21021	6.31537	6.31994	6.93944
2.096E-07	1.819E-07	1.677E-07	1.530E-07	1.211E-07	9.083E-08	7.271E-08	6.823E-08	6.057E-08	4.541E-08
84.660	84.903	86.982	93.086	93.815	94.517	95.625	96.651	97.515	99.055
7.16575	7.18632	7.36234	7.87897	7.94070	8.00013	8.09386	8.18072	8.25387	8.38418
3.634E-08	1.478E-08								
99.703	100.000								
8.43904	8.46418								

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 = 3.340E-05 DISTANCE = 800.000



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)= 0.033  
 HANDCHECK GRAPH: SLOPE LT -1.0 FOR LOW PERCENTAGES. XSAVE ( 4)= 0.112  
 HANDCHECK GRAPH: SLOPE LT -1.0 FOR LOW PERCENTAGES. XSAVE ( 6)= 0.388  
 HANDCHECK GRAPH: SLOPE LT -1.0 FOR LOW PERCENTAGES. XSAVE ( 7)= 0.452  
 HANDCHECK GRAPH: SLOPE LT -1.0 FOR LOW PERCENTAGES. XSAVE ( 8)= 1.203  
 HANDCHECK GRAPH: SLOPE LT -1.0 FOR LOW PERCENTAGES. XSAVE ( 9)= 3.014

K	I	XQSAVE(K, I)	XQINT(K, I)	XQSLOP(K, I)
10	1	-10.30702	-14.86787	-0.97440
10	2	-10.90947	-19.18073	-2.03606
10	3	-12.24271	-17.55571	-1.55918
10	4	-12.78817	-14.19559	-0.46028
10	5	-12.79371	-16.10496	-1.08719
10	6	-13.21027	-15.99362	-1.04538
10	7	-13.26439	-16.50878	-1.24270
10	8	-13.70502	-16.51797	-1.24677
10	9	-14.17558	NUMXQ(K)= 9	
		3.174E-06	0.085	1.000
		2.132E-06	0.254	3.000
		1.777E-06	0.423	5.000
		1.317E-06	0.846	10.000
		1.089E-06	1.270	15.000
		9.450E-07	1.693	20.000
		8.432E-07	2.116	25.000
		7.660E-07	2.539	30.000
		7.046E-07	2.962	35.000
		1.662E-06	0.5	5.91

ANNUAL AVERAGE = 3.79E-09

K= 10 FIVEXQ(K)= 1.662E-06 FIVEPR(K)= 5.907

FUMIGATION X/Q AT THE BOUNDARY: 1.07E-04

EXPONENTIAL TERM AND FREQUENCIES

4.773E-01	4.493E-01	4.286E-01	2.388E-01	2.312E-01	1.864E-01	5.166E-02
9.304	10.276	12.384	49.994	89.526	93.712	100.000

USNRC COMPUTER CODE-PAVAN, VERSION 2.0

RUN DATE: 03/14/07

PLANT NAME: Oyster Creek

METEOROLOGICAL INSTRUMENTATION

DATA PERIOD:

WIND SENSORS HEIGHT: 112 meters

TYPE OF RELEASE: Elevated Release

DELTA-T HEIGHTS: 10.1-115.8 meters

SOURCE OF DATA:

COMMENTS: Oyster Creek, Elevated Release, Stack, 1995-1999 met data

PROGRAM: PAVAN, 10/76, 8/79 REVISION, IMPLEMENTATION OF REGULATORY GUIDE 1.145

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

CLASS	METER/SEC	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	USED	
AT 112.0 METERS												
A	3.0	0.03	414.	0.	112.	84.5	88.5	0.0	0.000E+00	0.000E+00	6.429E-06	
A	4.0	0.13	414.	0.	112.	84.5	88.5	0.0	0.000E+00	0.000E+00	4.820E-06	
A	5.0	0.27	414.	0.	112.	84.5	88.5	0.0	0.000E+00	0.000E+00	3.859E-06	
A	5.9	0.13	414.	0.	112.	84.5	88.5	0.0	0.000E+00	0.000E+00	3.215E-06	
A	7.9	0.23	414.	0.	112.	84.5	88.5	0.0	0.000E+00	0.000E+00	2.410E-06	
A	9.9	0.07	414.	0.	112.	84.5	88.5	0.0	0.000E+00	0.000E+00	1.928E-06	
A	24.4	0.03	414.	0.	112.	84.5	88.5	0.0	0.000E+00	0.000E+00	7.844E-07	
CA= 957.SQ.METERS												
B	0.4	0.00	800.	0.	112.	115.2	86.0	0.0	0.000E+00	0.000E+00	3.340E-05	
B	3.0	0.03	800.	0.	112.	115.2	86.0	0.0	0.000E+00	0.000E+00	4.629E-06	
B	4.0	0.07	800.	0.	112.	115.2	86.0	0.0	0.000E+00	0.000E+00	3.470E-06	
B	5.0	0.10	800.	0.	112.	115.2	86.0	0.0	0.000E+00	0.000E+00	2.778E-06	
B	5.9	0.17	800.	0.	112.	115.2	86.0	0.0	0.000E+00	0.000E+00	2.314E-06	
B	7.9	0.43	800.	0.	112.	115.2	86.0	0.0	0.000E+00	0.000E+00	1.735E-06	
B	9.9	0.23	800.	0.	112.	115.2	86.0	0.0	0.000E+00	0.000E+00	1.388E-06	
B	24.4	0.20	800.	0.	112.	115.2	86.0	0.0	0.000E+00	0.000E+00	5.647E-07	
C	3.0	0.07	1000.	0.	112.	107.0	61.1	0.0	0.000E+00	0.000E+00	3.052E-06	
C	4.0	0.50	1000.	0.	112.	107.0	61.1	0.0	0.000E+00	0.000E+00	2.288E-06	
C	5.0	0.46	1000.	0.	112.	107.0	61.1	0.0	0.000E+00	0.000E+00	1.832E-06	
C	5.9	0.17	1000.	0.	112.	107.0	61.1	0.0	0.000E+00	0.000E+00	1.526E-06	
C	7.9	0.86	1000.	0.	112.	107.0	61.1	0.0	0.000E+00	0.000E+00	1.144E-06	
C	9.9	0.63	1000.	0.	112.	107.0	61.1	0.0	0.000E+00	0.000E+00	9.154E-07	
C	24.4	0.33	1000.	0.	112.	107.0	61.1	0.0	0.000E+00	0.000E+00	3.723E-07	
D	0.4	0.03	3000.	0.	112.	203.1	65.4	0.0	0.000E+00	0.000E+00	1.343E-05	
D	0.7	0.07	3000.	0.	112.	203.1	65.4	0.0	0.000E+00	0.000E+00	7.433E-06	
D	1.0	0.03	3000.	0.	112.	203.1	65.4	0.0	0.000E+00	0.000E+00	5.575E-06	
D	1.2	0.13	3000.	0.	112.	203.1	65.4	0.0	0.000E+00	0.000E+00	4.460E-06	
D	1.5	0.20	3000.	0.	112.	203.1	65.4	0.0	0.000E+00	0.000E+00	3.717E-06	
D	2.0	0.60	3000.	0.	112.	203.1	65.4	0.0	0.000E+00	0.000E+00	2.794E-06	
D	3.0	1.69	3000.	0.	112.	203.1	65.4	0.0	0.000E+00	0.000E+00	1.861E-06	
D	4.0	2.95	3000.	0.	112.	203.1	65.4	0.0	0.000E+00	0.000E+00	1.395E-06	
D	5.0	2.92	3000.	0.	112.	203.1	65.4	0.0	0.000E+00	0.000E+00	1.117E-06	
D	5.9	3.08	3000.	0.	112.	203.1	65.4	0.0	0.000E+00	0.000E+00	9.305E-07	
D	7.9	4.91	3000.	0.	112.	203.1	65.4	0.0	0.000E+00	0.000E+00	6.976E-07	
D	9.9	3.51	3000.	0.	112.	203.1	65.4	0.0	0.000E+00	0.000E+00	5.582E-07	
D	24.4	2.45	3000.	0.	112.	203.1	65.4	0.0	0.000E+00	0.000E+00	2.270E-07	
E	0.4	0.03	7000.	0.	112.	310.5	66.2	0.0	0.000E+00	0.000E+00	9.048E-06	
E	0.7	0.03	7000.	0.	112.	310.5	66.2	0.0	0.000E+00	0.000E+00	5.009E-06	
E	1.0	0.13	7000.	0.	112.	310.5	66.2	0.0	0.000E+00	0.000E+00	3.756E-06	
E	1.2	0.07	7000.	0.	112.	310.5	66.2	0.0	0.000E+00	0.000E+00	3.005E-06	

E	1.5	0.03	7000.	0.	112.	310.5	66.2	0.0	0.000E+00	0.000E+00	2.504E-06
E	2.0	0.50	7000.	0.	112.	310.5	66.2	0.0	0.000E+00	0.000E+00	1.882E-06
E	3.0	0.89	7000.	0.	112.	310.5	66.2	0.0	0.000E+00	0.000E+00	1.254E-06
E	3.9	1.43	7000.	0.	112.	310.5	66.2	0.0	0.000E+00	0.000E+00	9.402E-07
E	4.9	1.99	7000.	0.	112.	310.5	66.2	0.0	0.000E+00	0.000E+00	7.526E-07
E	5.9	3.65	7000.	0.	112.	310.5	66.2	0.0	0.000E+00	0.000E+00	6.270E-07
E	7.9	10.41	7000.	0.	112.	310.5	66.2	0.0	0.000E+00	0.000E+00	4.701E-07
E	9.8	12.43	7000.	0.	112.	310.5	66.2	0.0	0.000E+00	0.000E+00	3.761E-07
E	24.2	9.81	7000.	0.	112.	310.5	66.2	0.0	0.000E+00	0.000E+00	1.530E-07
F	0.4	0.02	90000.	0.	112.	1000.0	92.1	0.0	0.000E+00	0.000E+00	4.035E-06
F	0.7	0.07	90000.	0.	112.	1000.0	92.1	0.0	0.000E+00	0.000E+00	2.234E-06
F	1.0	0.03	90000.	0.	112.	1000.0	92.1	0.0	0.000E+00	0.000E+00	1.675E-06
F	1.2	0.03	90000.	0.	112.	1000.0	92.1	0.0	0.000E+00	0.000E+00	1.340E-06
F	1.5	0.07	90000.	0.	112.	1000.0	92.1	0.0	0.000E+00	0.000E+00	1.117E-06
F	2.0	0.10	90000.	0.	112.	1000.0	92.1	0.0	0.000E+00	0.000E+00	8.395E-07
F	3.0	0.60	90000.	0.	112.	1000.0	92.1	0.0	0.000E+00	0.000E+00	5.592E-07
F	3.9	0.96	90000.	0.	112.	1000.0	92.1	0.0	0.000E+00	0.000E+00	4.193E-07
F	4.9	1.16	90000.	0.	112.	1000.0	92.1	0.0	0.000E+00	0.000E+00	3.356E-07
F	5.9	1.52	90000.	0.	112.	1000.0	92.1	0.0	0.000E+00	0.000E+00	2.796E-07
F	7.9	4.64	90000.	0.	112.	1000.0	92.1	0.0	0.000E+00	0.000E+00	2.096E-07
F	9.8	5.07	90000.	0.	112.	1000.0	92.1	0.0	0.000E+00	0.000E+00	1.677E-07
F	24.2	5.67	90000.	0.	112.	1000.0	92.1	0.0	0.000E+00	0.000E+00	6.823E-08
G	0.4	0.08	90000.	0.	112.	1000.0	46.0	0.0	0.000E+00	0.000E+00	8.741E-07
G	0.5	0.03	90000.	0.	112.	1000.0	46.0	0.0	0.000E+00	0.000E+00	7.258E-07
G	1.0	0.23	90000.	0.	112.	1000.0	46.0	0.0	0.000E+00	0.000E+00	3.629E-07
G	1.2	0.03	90000.	0.	112.	1000.0	46.0	0.0	0.000E+00	0.000E+00	2.903E-07
G	1.5	0.27	90000.	0.	112.	1000.0	46.0	0.0	0.000E+00	0.000E+00	2.419E-07
G	2.0	0.33	90000.	0.	112.	1000.0	46.0	0.0	0.000E+00	0.000E+00	1.819E-07
G	3.0	0.80	90000.	0.	112.	1000.0	46.0	0.0	0.000E+00	0.000E+00	1.211E-07
G	3.9	1.26	90000.	0.	112.	1000.0	46.0	0.0	0.000E+00	0.000E+00	9.083E-08
G	4.9	1.19	90000.	0.	112.	1000.0	46.0	0.0	0.000E+00	0.000E+00	7.271E-08
G	5.9	1.59	90000.	0.	112.	1000.0	46.0	0.0	0.000E+00	0.000E+00	6.057E-08
G	7.9	2.39	90000.	0.	112.	1000.0	46.0	0.0	0.000E+00	0.000E+00	4.541E-08
G	9.8	1.89	90000.	0.	112.	1000.0	46.0	0.0	0.000E+00	0.000E+00	3.634E-08
G	24.2	0.86	90000.	0.	112.	1000.0	46.0	0.0	0.000E+00	0.000E+00	1.478E-08

USNRC COMPUTER CODE-PAVAN, VERSION 2.0

RUN DATE: 03/14/07

PLANT NAME: Oyster Creek

METEOROLOGICAL INSTRUMENTATION

DATA PERIOD:

WIND SENSORS HEIGHT: 112 meters

TYPE OF RELEASE: Elevated Release

DELTA-T HEIGHTS: 10.1-115.8 meters

SOURCE OF DATA:

COMMENTS: Oyster Creek, Elevated Release, Stack, 1995-1999 met data

PROGRAM: PAVAN, 10/76, 8/79 REVISION, IMPLEMENTATION OF REGULATORY GUIDE 1.145

SITE EXCLUSION BOUNDARY CALCULATIONS:

NE SECTOR BOUNDARY DISTANCE = 414.0 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.

3.340E-05	1.343E-05	9.048E-06	7.433E-06	6.429E-06	5.575E-06	5.009E-06	4.820E-06	4.629E-06	4.460E-06
0.002	0.031	0.056	0.122	0.155	0.189	0.222	0.354	0.387	0.520
0.00014	0.00212	0.00386	0.00843	0.01072	0.01300	0.01529	0.02443	0.02672	0.03586
4.035E-06	3.859E-06	3.756E-06	3.717E-06	3.470E-06	3.215E-06	3.052E-06	3.005E-06	2.794E-06	2.778E-06
0.541	0.807	0.939	1.138	1.204	1.337	1.403	1.469	2.066	2.166
0.03733	0.05562	0.06476	0.07848	0.08305	0.09220	0.09677	0.10134	0.14249	0.14934
2.504E-06	2.410E-06	2.314E-06	2.288E-06	2.234E-06	1.928E-06	1.882E-06	1.861E-06	1.832E-06	1.735E-06
2.199	2.431	2.596	3.094	3.160	3.226	3.723	5.414	5.878	6.309
0.15163	0.16763	0.17906	0.21335	0.21792	0.22250	0.25679	0.37337	0.40537	0.43509
1.675E-06	1.526E-06	1.395E-06	1.388E-06	1.340E-06	1.254E-06	1.144E-06	1.117E-06	1.117E-06	9.402E-07
6.342	6.508	9.458	9.690	9.723	10.618	11.480	14.397	14.463	15.889
0.43738	0.44881	0.65226	0.66826	0.67055	0.73227	0.79170	0.99287	0.99744	1.09574
9.305E-07	9.154E-07	8.741E-07	8.395E-07	7.844E-07	7.526E-07	7.258E-07	6.976E-07	6.270E-07	5.647E-07
18.971	19.601	19.684	19.783	19.816	21.805	21.838	26.744	30.390	30.589
1.30833	1.35177	1.35745	1.36431	1.36660	1.50376	1.50604	1.84437	2.09582	2.10954
5.592E-07	5.582E-07	4.701E-07	4.193E-07	3.761E-07	3.723E-07	3.629E-07	3.356E-07	2.903E-07	2.796E-07
31.186	34.699	45.108	46.069	58.499	58.831	59.063	60.223	60.256	61.781
2.15069	2.39300	3.11080	3.17709	4.03433	4.05719	4.07319	4.15320	4.15549	4.26064
2.419E-07	2.270E-07	2.096E-07	1.819E-07	1.677E-07	1.530E-07	1.211E-07	9.083E-08	7.271E-08	6.823E-08
62.046	64.499	69.140	69.471	74.543	84.354	85.150	86.410	87.603	93.271
4.27893	4.44809	4.76813	4.79099	5.14074	5.81739	5.87225	5.95912	6.04142	6.43232
6.057E-08	4.541E-08	3.634E-08	1.478E-08						
94.862	97.249	99.138	100.000						
6.54205	6.70664	6.83694	6.89637						

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 = 3.340E-05 DISTANCE = 800.000

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)= 0.036  
 HANDCHECK GRAPH: SLOPE LT -1.0 FOR LOW PERCENTAGES. XSAVE ( 4)= 0.149  
 HANDCHECK GRAPH: SLOPE LT -1.0 FOR LOW PERCENTAGES. XSAVE ( 5)= 0.405  
 HANDCHECK GRAPH: SLOPE LT -1.0 FOR LOW PERCENTAGES. XSAVE ( 6)= 0.992

K	I	XQSAVE(K, I)	XQINT(K, I)	XQSLOP(K, I)
11	1	-10.30702	-17.56991	-1.55168
11	2	-12.32040	-15.10715	-0.82373
11	3	-12.50272	-17.28556	-1.51271
11	4	-12.79371	-16.64164	-1.29586
11	5	-13.21027	-17.32278	-1.55309
11	6	-13.70491	-13.85064	-0.06256
11	7	-13.70502	NUMXQ(K)= 7	
		3.833E-06	0.069	1.000
		2.435E-06	0.207	3.000
		1.965E-06	0.345	5.000
		1.374E-06	0.690	10.000
		1.639E-06	0.5	7.25

ANNUAL AVERAGE = 3.53E-09

K= 11 FIVEXQ(K)= 1.639E-06 FIVEPR(K)= 7.250

FUMIGATION X/Q AT THE BOUNDARY: 1.07E-04

EXPONENTIAL TERM AND FREQUENCIES

4.773E-01	4.493E-01	4.286E-01	2.388E-01	2.312E-01	1.864E-01	5.166E-02
19.943	20.838	22.066	63.460	86.029	89.045	100.000

USNRC COMPUTER CODE-PAVAN, VERSION 2.0

RUN DATE: 03/14/07

PLANT NAME: Oyster Creek

METEOROLOGICAL INSTRUMENTATION

DATA PERIOD:

WIND SENSORS HEIGHT: 112 meters

TYPE OF RELEASE: Elevated Release

DELTA-T HEIGHTS: 10.1-115.8 meters

SOURCE OF DATA:

COMMENTS: Oyster Creek, Elevated Release, Stack, 1995-1999 met data

PROGRAM: PAVAN, 10/76, 8/79 REVISION, IMPLEMENTATION OF REGULATORY GUIDE 1.145

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

CLASS	METER/SEC	PERCENT	METERS	METERS	METERS	SIGMA-Y METERS	SIGMA-Z METERS	MEANDER-SY METERS	** CHI/Q VALUES (SEC/CUBIC METER)		
									MEANDER	BLDG WAKE	USED
									CA= 957.SQ.METERS		
AT 112.0 METERS											
A	3.0	0.03	414.	0.	112.	84.5	88.5	0.0	0.000E+00	0.000E+00	6.429E-06
A	4.0	0.13	414.	0.	112.	84.5	88.5	0.0	0.000E+00	0.000E+00	4.820E-06
A	5.0	0.07	414.	0.	112.	84.5	88.5	0.0	0.000E+00	0.000E+00	3.859E-06
A	5.9	0.16	414.	0.	112.	84.5	88.5	0.0	0.000E+00	0.000E+00	3.215E-06
A	7.9	0.29	414.	0.	112.	84.5	88.5	0.0	0.000E+00	0.000E+00	2.410E-06
A	9.9	0.23	414.	0.	112.	84.5	88.5	0.0	0.000E+00	0.000E+00	1.928E-06
A	24.4	0.23	414.	0.	112.	84.5	88.5	0.0	0.000E+00	0.000E+00	7.844E-07
B	0.4	0.00	800.	0.	112.	115.2	86.0	0.0	0.000E+00	0.000E+00	3.340E-05
B	4.0	0.20	800.	0.	112.	115.2	86.0	0.0	0.000E+00	0.000E+00	3.470E-06
B	5.0	0.33	800.	0.	112.	115.2	86.0	0.0	0.000E+00	0.000E+00	2.778E-06
B	5.9	0.46	800.	0.	112.	115.2	86.0	0.0	0.000E+00	0.000E+00	2.314E-06
B	7.9	1.08	800.	0.	112.	115.2	86.0	0.0	0.000E+00	0.000E+00	1.735E-06
B	9.9	0.56	800.	0.	112.	115.2	86.0	0.0	0.000E+00	0.000E+00	1.388E-06
B	24.4	0.29	800.	0.	112.	115.2	86.0	0.0	0.000E+00	0.000E+00	5.647E-07
C	2.0	0.10	1000.	0.	112.	107.0	61.1	0.0	0.000E+00	0.000E+00	4.581E-06
C	3.0	0.13	1000.	0.	112.	107.0	61.1	0.0	0.000E+00	0.000E+00	3.052E-06
C	4.0	0.36	1000.	0.	112.	107.0	61.1	0.0	0.000E+00	0.000E+00	2.288E-06
C	5.0	0.82	1000.	0.	112.	107.0	61.1	0.0	0.000E+00	0.000E+00	1.832E-06
C	5.9	1.14	1000.	0.	112.	107.0	61.1	0.0	0.000E+00	0.000E+00	1.526E-06
C	7.9	1.93	1000.	0.	112.	107.0	61.1	0.0	0.000E+00	0.000E+00	1.144E-06
C	9.9	0.69	1000.	0.	112.	107.0	61.1	0.0	0.000E+00	0.000E+00	9.154E-07
C	24.4	0.52	1000.	0.	112.	107.0	61.1	0.0	0.000E+00	0.000E+00	3.723E-07
D	0.4	0.02	3000.	0.	112.	203.1	65.4	0.0	0.000E+00	0.000E+00	1.343E-05
D	0.7	0.03	3000.	0.	112.	203.1	65.4	0.0	0.000E+00	0.000E+00	7.433E-06
D	1.0	0.07	3000.	0.	112.	203.1	65.4	0.0	0.000E+00	0.000E+00	5.575E-06
D	1.2	0.10	3000.	0.	112.	203.1	65.4	0.0	0.000E+00	0.000E+00	4.460E-06
D	1.5	0.20	3000.	0.	112.	203.1	65.4	0.0	0.000E+00	0.000E+00	3.717E-06
D	2.0	0.26	3000.	0.	112.	203.1	65.4	0.0	0.000E+00	0.000E+00	2.794E-06
D	3.0	1.44	3000.	0.	112.	203.1	65.4	0.0	0.000E+00	0.000E+00	1.861E-06
D	4.0	2.71	3000.	0.	112.	203.1	65.4	0.0	0.000E+00	0.000E+00	1.395E-06
D	5.0	3.33	3000.	0.	112.	203.1	65.4	0.0	0.000E+00	0.000E+00	1.117E-06
D	5.9	4.21	3000.	0.	112.	203.1	65.4	0.0	0.000E+00	0.000E+00	9.305E-07
D	7.9	7.48	3000.	0.	112.	203.1	65.4	0.0	0.000E+00	0.000E+00	6.976E-07
D	9.9	3.89	3000.	0.	112.	203.1	65.4	0.0	0.000E+00	0.000E+00	5.582E-07
D	24.4	2.78	3000.	0.	112.	203.1	65.4	0.0	0.000E+00	0.000E+00	2.270E-07
E	0.4	0.02	7000.	0.	112.	310.5	66.2	0.0	0.000E+00	0.000E+00	9.048E-06
E	1.0	0.07	7000.	0.	112.	310.5	66.2	0.0	0.000E+00	0.000E+00	3.756E-06
E	1.2	0.10	7000.	0.	112.	310.5	66.2	0.0	0.000E+00	0.000E+00	3.005E-06
E	1.5	0.10	7000.	0.	112.	310.5	66.2	0.0	0.000E+00	0.000E+00	2.504E-06

E	2.0	0.26	7000.	0.	112.	310.5	66.2	0.0	0.000E+00	0.000E+00	1.882E-06
E	3.0	0.56	7000.	0.	112.	310.5	66.2	0.0	0.000E+00	0.000E+00	1.254E-06
E	3.9	1.18	7000.	0.	112.	310.5	66.2	0.0	0.000E+00	0.000E+00	9.402E-07
E	4.9	1.60	7000.	0.	112.	310.5	66.2	0.0	0.000E+00	0.000E+00	7.526E-07
E	5.9	2.78	7000.	0.	112.	310.5	66.2	0.0	0.000E+00	0.000E+00	6.270E-07
E	7.9	7.54	7000.	0.	112.	310.5	66.2	0.0	0.000E+00	0.000E+00	4.701E-07
E	9.8	11.26	7000.	0.	112.	310.5	66.2	0.0	0.000E+00	0.000E+00	3.761E-07
E	24.2	6.20	7000.	0.	112.	310.5	66.2	0.0	0.000E+00	0.000E+00	1.530E-07
F	0.4	0.03	90000.	0.	112.	1000.0	92.1	0.0	0.000E+00	0.000E+00	4.035E-06
F	0.5	0.03	90000.	0.	112.	1000.0	92.1	0.0	0.000E+00	0.000E+00	3.350E-06
F	0.7	0.03	90000.	0.	112.	1000.0	92.1	0.0	0.000E+00	0.000E+00	2.234E-06
F	1.0	0.10	90000.	0.	112.	1000.0	92.1	0.0	0.000E+00	0.000E+00	1.675E-06
F	1.2	0.03	90000.	0.	112.	1000.0	92.1	0.0	0.000E+00	0.000E+00	1.340E-06
F	1.5	0.16	90000.	0.	112.	1000.0	92.1	0.0	0.000E+00	0.000E+00	1.117E-06
F	2.0	0.29	90000.	0.	112.	1000.0	92.1	0.0	0.000E+00	0.000E+00	8.395E-07
F	3.0	0.46	90000.	0.	112.	1000.0	92.1	0.0	0.000E+00	0.000E+00	5.592E-07
F	3.9	0.46	90000.	0.	112.	1000.0	92.1	0.0	0.000E+00	0.000E+00	4.193E-07
F	4.9	1.01	90000.	0.	112.	1000.0	92.1	0.0	0.000E+00	0.000E+00	3.356E-07
F	5.9	0.75	90000.	0.	112.	1000.0	92.1	0.0	0.000E+00	0.000E+00	2.796E-07
F	7.9	3.30	90000.	0.	112.	1000.0	92.1	0.0	0.000E+00	0.000E+00	2.096E-07
F	9.8	6.33	90000.	0.	112.	1000.0	92.1	0.0	0.000E+00	0.000E+00	1.677E-07
F	24.2	5.68	90000.	0.	112.	1000.0	92.1	0.0	0.000E+00	0.000E+00	6.823E-08
G	0.4	0.05	90000.	0.	112.	1000.0	46.0	0.0	0.000E+00	0.000E+00	8.741E-07
G	1.0	0.10	90000.	0.	112.	1000.0	46.0	0.0	0.000E+00	0.000E+00	3.629E-07
G	1.2	0.07	90000.	0.	112.	1000.0	46.0	0.0	0.000E+00	0.000E+00	2.903E-07
G	1.5	0.10	90000.	0.	112.	1000.0	46.0	0.0	0.000E+00	0.000E+00	2.419E-07
G	2.0	0.13	90000.	0.	112.	1000.0	46.0	0.0	0.000E+00	0.000E+00	1.819E-07
G	3.0	0.46	90000.	0.	112.	1000.0	46.0	0.0	0.000E+00	0.000E+00	1.211E-07
G	3.9	0.85	90000.	0.	112.	1000.0	46.0	0.0	0.000E+00	0.000E+00	9.083E-08
G	4.9	1.27	90000.	0.	112.	1000.0	46.0	0.0	0.000E+00	0.000E+00	7.271E-08
G	5.9	1.27	90000.	0.	112.	1000.0	46.0	0.0	0.000E+00	0.000E+00	6.057E-08
G	7.9	2.64	90000.	0.	112.	1000.0	46.0	0.0	0.000E+00	0.000E+00	4.541E-08
G	9.8	3.20	90000.	0.	112.	1000.0	46.0	0.0	0.000E+00	0.000E+00	3.634E-08
G	24.2	3.30	90000.	0.	112.	1000.0	46.0	0.0	0.000E+00	0.000E+00	1.478E-08

USNRC COMPUTER CODE-PAVAN, VERSION 2.0

RUN DATE: 03/14/07

PLANT NAME: Oyster Creek  
 DATA PERIOD:  
 TYPE OF RELEASE: Elevated Release  
 SOURCE OF DATA:  
 COMMENTS: Oyster Creek, Elevated Release, Stack, 1995-1999 met data  
 PROGRAM: PAVAN, 10/76, 8/79 REVISION, IMPLEMENTATION OF REGULATORY GUIDE 1.145

METEOROLOGICAL INSTRUMENTATION  
 WIND SENSORS HEIGHT: 112 meters  
 DELTA-T HEIGHTS: 10.1-115.8 meters

SITE EXCLUSION BOUNDARY CALCULATIONS:

ENE SECTOR BOUNDARY DISTANCE = 414.0 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.

3.340E-05	1.343E-05	9.048E-06	7.433E-06	6.429E-06	5.575E-06	4.820E-06	4.581E-06	4.460E-06	4.035E-06
0.002	0.026	0.044	0.077	0.109	0.175	0.305	0.403	0.501	0.533
0.00014	0.00183	0.00308	0.00536	0.00765	0.01222	0.02137	0.02822	0.03508	0.03729
3.859E-06	3.756E-06	3.717E-06	3.470E-06	3.350E-06	3.215E-06	3.052E-06	3.005E-06	2.794E-06	2.778E-06
0.598	0.663	0.859	1.055	1.088	1.251	1.381	1.479	1.741	2.067
0.04186	0.04643	0.06015	0.07386	0.07615	0.08758	0.09672	0.10358	0.12187	0.14473
2.504E-06	2.410E-06	2.314E-06	2.288E-06	2.234E-06	1.928E-06	1.882E-06	1.861E-06	1.832E-06	1.735E-06
2.165	2.459	2.916	3.275	3.308	3.536	3.798	5.234	6.051	7.128
0.15159	0.17216	0.20416	0.22931	0.23159	0.24760	0.26588	0.36647	0.42362	0.49905
1.675E-06	1.526E-06	1.395E-06	1.388E-06	1.340E-06	1.254E-06	1.144E-06	1.117E-06	1.117E-06	9.402E-07
7.226	8.369	11.079	11.634	11.667	12.222	14.148	17.478	17.642	18.817
0.50591	0.58592	0.77566	0.81452	0.81680	0.85567	0.99054	1.22371	1.23514	1.31743
9.305E-07	9.154E-07	8.741E-07	8.395E-07	7.844E-07	7.526E-07	6.976E-07	6.270E-07	5.647E-07	5.592E-07
23.029	23.715	23.760	24.054	24.282	25.882	33.359	36.135	36.428	36.886
1.61232	1.66033	1.66349	1.68406	1.70006	1.81208	2.33556	2.52987	2.55045	2.58245
5.582E-07	4.701E-07	4.193E-07	3.761E-07	3.723E-07	3.629E-07	3.356E-07	2.903E-07	2.796E-07	2.419E-07
40.771	48.313	48.771	60.035	60.558	60.656	61.668	61.733	62.484	62.582
2.85448	3.38254	3.41455	4.20321	4.23978	4.24664	4.31751	4.32208	4.37465	4.38151
2.270E-07	2.096E-07	1.819E-07	1.677E-07	1.530E-07	1.211E-07	9.083E-08	7.271E-08	6.823E-08	6.057E-08
65.357	68.655	68.786	75.120	81.324	81.781	82.630	83.903	89.584	90.858
4.57582	4.80670	4.81585	5.25933	5.69366	5.72567	5.78510	5.87426	6.27201	6.36117
4.541E-08	3.634E-08	1.478E-08							
93.502	96.702	100.000							
6.54633	6.77036	7.00124							

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 = 3.340E-05      DISTANCE = 800.000



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)= 0.035  
 HANDCHECK GRAPH: SLOPE LT -1.0 FOR LOW PERCENTAGES. XSAVE ( 3)= 0.074  
 HANDCHECK GRAPH: SLOPE LT -1.0 FOR LOW PERCENTAGES. XSAVE ( 4)= 0.145  
 HANDCHECK GRAPH: SLOPE LT -1.0 FOR LOW PERCENTAGES. XSAVE ( 5)= 0.423  
 HANDCHECK GRAPH: SLOPE LT -1.0 FOR LOW PERCENTAGES. XSAVE ( 7)= 0.814  
 HANDCHECK GRAPH: SLOPE LT -1.0 FOR LOW PERCENTAGES. XSAVE ( 8)= 1.234  
 HANDCHECK GRAPH: SLOPE LT -1.0 FOR LOW PERCENTAGES. XSAVE ( 9)= 1.658

K	I	XQSAVE(K, I)	XQINT(K, I)	XQSLOP(K, I)
12	1	-10.30702	-17.60382	-1.55893
12	2	-12.32040	-16.37334	-1.19586
12	3	-12.57124	-16.10183	-1.11046
12	4	-12.79371	-16.38023	-1.20392
12	5	-13.21027	-15.74816	-0.96387
12	6	-13.26439	-16.56358	-1.28030
12	7	-13.48731	-16.83377	-1.39275
12	8	-13.70502	-17.54131	-1.70771
12	9	-13.90386	NUMXQ(K)= 9	
		3.535E-06	0.070	1.000
		2.416E-06	0.210	3.000
		1.979E-06	0.350	5.000
		1.489E-06	0.700	10.000
		1.217E-06	1.050	15.000
		1.028E-06	1.400	20.000
		1.734E-06	0.5	7.14

ANNUAL AVERAGE = 4.20E-09

K= 12 FIVEXQ(K)= 1.734E-06 FIVEPR(K)= 7.142

FUMIGATION X/Q AT THE BOUNDARY: 1.07E-04

EXPONENTIAL TERM AND FREQUENCIES

4.773E-01	4.493E-01	4.286E-01	2.388E-01	2.312E-01	1.864E-01	5.166E-02
18.675	19.818	22.726	54.383	80.887	86.568	100.000

USNRC COMPUTER CODE-PAVAN, VERSION 2.0

RUN DATE: 03/14/07

PLANT NAME: Oyster Creek

METEOROLOGICAL INSTRUMENTATION

DATA PERIOD:

WIND SENSORS HEIGHT: 112 meters

TYPE OF RELEASE: Elevated Release

DELTA-T HEIGHTS: 10.1-115.8 meters

SOURCE OF DATA:

COMMENTS: Oyster Creek, Elevated Release, Stack, 1995-1999 met data

PROGRAM: PAVAN, 10/76, 8/79 REVISION, IMPLEMENTATION OF REGULATORY GUIDE 1.145

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

CLASS	METER/SEC	PERCENT	METERS	METERS	PLUME HT METERS	SIGMA-Y METERS	SIGMA-Z METERS	MEANDER-SY METERS	** CHI/Q VALUES (SEC/CUBIC METER)			
									MEANDER	BLDG WAKE	USED	
AT 112.0 METERS												
A	5.0	0.08	414.	0.	112.	84.5	88.5	0.0	0.000E+00	0.000E+00	3.859E-06	
A	5.9	0.20	414.	0.	112.	84.5	88.5	0.0	0.000E+00	0.000E+00	3.215E-06	
A	7.9	0.59	414.	0.	112.	84.5	88.5	0.0	0.000E+00	0.000E+00	2.410E-06	
A	9.9	0.59	414.	0.	112.	84.5	88.5	0.0	0.000E+00	0.000E+00	1.928E-06	
A	24.4	0.39	414.	0.	112.	84.5	88.5	0.0	0.000E+00	0.000E+00	7.844E-07	
B	0.4	0.00	800.	0.	112.	115.2	86.0	0.0	0.000E+00	0.000E+00	3.340E-05	
B	3.0	0.03	800.	0.	112.	115.2	86.0	0.0	0.000E+00	0.000E+00	4.629E-06	
B	4.0	0.14	800.	0.	112.	115.2	86.0	0.0	0.000E+00	0.000E+00	3.470E-06	
B	5.0	0.20	800.	0.	112.	115.2	86.0	0.0	0.000E+00	0.000E+00	2.778E-06	
B	5.9	0.48	800.	0.	112.	115.2	86.0	0.0	0.000E+00	0.000E+00	2.314E-06	
B	7.9	1.30	800.	0.	112.	115.2	86.0	0.0	0.000E+00	0.000E+00	1.735E-06	
B	9.9	0.68	800.	0.	112.	115.2	86.0	0.0	0.000E+00	0.000E+00	1.388E-06	
B	24.4	0.96	800.	0.	112.	115.2	86.0	0.0	0.000E+00	0.000E+00	5.647E-07	
C	3.0	0.14	1000.	0.	112.	107.0	61.1	0.0	0.000E+00	0.000E+00	3.052E-06	
C	4.0	0.39	1000.	0.	112.	107.0	61.1	0.0	0.000E+00	0.000E+00	2.288E-06	
C	5.0	0.82	1000.	0.	112.	107.0	61.1	0.0	0.000E+00	0.000E+00	1.832E-06	
C	5.9	1.30	1000.	0.	112.	107.0	61.1	0.0	0.000E+00	0.000E+00	1.526E-06	
C	7.9	2.20	1000.	0.	112.	107.0	61.1	0.0	0.000E+00	0.000E+00	1.144E-06	
C	9.9	1.15	1000.	0.	112.	107.0	61.1	0.0	0.000E+00	0.000E+00	9.154E-07	
C	24.4	0.84	1000.	0.	112.	107.0	61.1	0.0	0.000E+00	0.000E+00	3.723E-07	
D	0.4	0.03	3000.	0.	112.	203.1	65.4	0.0	0.000E+00	0.000E+00	1.343E-05	
D	0.7	0.06	3000.	0.	112.	203.1	65.4	0.0	0.000E+00	0.000E+00	7.433E-06	
D	1.0	0.11	3000.	0.	112.	203.1	65.4	0.0	0.000E+00	0.000E+00	5.575E-06	
D	1.2	0.06	3000.	0.	112.	203.1	65.4	0.0	0.000E+00	0.000E+00	4.460E-06	
D	1.5	0.11	3000.	0.	112.	203.1	65.4	0.0	0.000E+00	0.000E+00	3.717E-06	
D	2.0	0.39	3000.	0.	112.	203.1	65.4	0.0	0.000E+00	0.000E+00	2.794E-06	
D	3.0	1.69	3000.	0.	112.	203.1	65.4	0.0	0.000E+00	0.000E+00	1.861E-06	
D	4.0	2.65	3000.	0.	112.	203.1	65.4	0.0	0.000E+00	0.000E+00	1.395E-06	
D	5.0	3.24	3000.	0.	112.	203.1	65.4	0.0	0.000E+00	0.000E+00	1.117E-06	
D	5.9	4.59	3000.	0.	112.	203.1	65.4	0.0	0.000E+00	0.000E+00	9.305E-07	
D	7.9	8.28	3000.	0.	112.	203.1	65.4	0.0	0.000E+00	0.000E+00	6.976E-07	
D	9.9	6.45	3000.	0.	112.	203.1	65.4	0.0	0.000E+00	0.000E+00	5.582E-07	
D	24.4	4.56	3000.	0.	112.	203.1	65.4	0.0	0.000E+00	0.000E+00	2.270E-07	
E	0.4	0.02	7000.	0.	112.	310.5	66.2	0.0	0.000E+00	0.000E+00	9.048E-06	
E	1.0	0.08	7000.	0.	112.	310.5	66.2	0.0	0.000E+00	0.000E+00	3.756E-06	
E	1.2	0.08	7000.	0.	112.	310.5	66.2	0.0	0.000E+00	0.000E+00	3.005E-06	
E	1.5	0.08	7000.	0.	112.	310.5	66.2	0.0	0.000E+00	0.000E+00	2.504E-06	
E	2.0	0.23	7000.	0.	112.	310.5	66.2	0.0	0.000E+00	0.000E+00	1.882E-06	
E	3.0	0.51	7000.	0.	112.	310.5	66.2	0.0	0.000E+00	0.000E+00	1.254E-06	

CA= 957.SQ.METERS

E	3.9	0.96	7000.	0.	112.	310.5	66.2	0.0	0.000E+00	0.000E+00	9.402E-07
E	4.9	1.15	7000.	0.	112.	310.5	66.2	0.0	0.000E+00	0.000E+00	7.526E-07
E	5.9	2.65	7000.	0.	112.	310.5	66.2	0.0	0.000E+00	0.000E+00	6.270E-07
E	7.9	6.78	7000.	0.	112.	310.5	66.2	0.0	0.000E+00	0.000E+00	4.701E-07
E	9.8	8.76	7000.	0.	112.	310.5	66.2	0.0	0.000E+00	0.000E+00	3.761E-07
E	24.2	4.22	7000.	0.	112.	310.5	66.2	0.0	0.000E+00	0.000E+00	1.530E-07
F	2.0	0.06	90000.	0.	112.	1000.0	92.1	0.0	0.000E+00	0.000E+00	8.395E-07
F	3.0	0.39	90000.	0.	112.	1000.0	92.1	0.0	0.000E+00	0.000E+00	5.592E-07
F	3.9	0.39	90000.	0.	112.	1000.0	92.1	0.0	0.000E+00	0.000E+00	4.193E-07
F	4.9	0.59	90000.	0.	112.	1000.0	92.1	0.0	0.000E+00	0.000E+00	3.356E-07
F	5.9	1.04	90000.	0.	112.	1000.0	92.1	0.0	0.000E+00	0.000E+00	2.796E-07
F	7.9	3.07	90000.	0.	112.	1000.0	92.1	0.0	0.000E+00	0.000E+00	2.096E-07
F	9.8	5.35	90000.	0.	112.	1000.0	92.1	0.0	0.000E+00	0.000E+00	1.677E-07
F	24.2	5.04	90000.	0.	112.	1000.0	92.1	0.0	0.000E+00	0.000E+00	6.823E-08
G	0.4	0.04	90000.	0.	112.	1000.0	46.0	0.0	0.000E+00	0.000E+00	8.741E-07
G	0.7	0.03	90000.	0.	112.	1000.0	46.0	0.0	0.000E+00	0.000E+00	4.839E-07
G	1.0	0.06	90000.	0.	112.	1000.0	46.0	0.0	0.000E+00	0.000E+00	3.629E-07
G	1.2	0.06	90000.	0.	112.	1000.0	46.0	0.0	0.000E+00	0.000E+00	2.903E-07
G	1.5	0.08	90000.	0.	112.	1000.0	46.0	0.0	0.000E+00	0.000E+00	2.419E-07
G	2.0	0.28	90000.	0.	112.	1000.0	46.0	0.0	0.000E+00	0.000E+00	1.819E-07
G	3.0	0.79	90000.	0.	112.	1000.0	46.0	0.0	0.000E+00	0.000E+00	1.211E-07
G	3.9	0.93	90000.	0.	112.	1000.0	46.0	0.0	0.000E+00	0.000E+00	9.083E-08
G	4.9	1.21	90000.	0.	112.	1000.0	46.0	0.0	0.000E+00	0.000E+00	7.271E-08
G	5.9	1.44	90000.	0.	112.	1000.0	46.0	0.0	0.000E+00	0.000E+00	6.057E-08
G	7.9	3.46	90000.	0.	112.	1000.0	46.0	0.0	0.000E+00	0.000E+00	4.541E-08
G	9.8	2.93	90000.	0.	112.	1000.0	46.0	0.0	0.000E+00	0.000E+00	3.634E-08
G	24.2	2.56	90000.	0.	112.	1000.0	46.0	0.0	0.000E+00	0.000E+00	1.478E-08

USNRC COMPUTER CODE-PAVAN, VERSION 2.0

RUN DATE: 03/14/07

PLANT NAME: Oyster Creek

METEOROLOGICAL INSTRUMENTATION

DATA PERIOD:

WIND SENSORS HEIGHT: 112 meters

TYPE OF RELEASE: Elevated Release

DELTA-T HEIGHTS: 10.1-115.8 meters

SOURCE OF DATA:

COMMENTS: Oyster Creek, Elevated Release, Stack, 1995-1999 met data

PROGRAM: PAVAN, 10/76, 8/79 REVISION, IMPLEMENTATION OF REGULATORY GUIDE 1.145

SITE EXCLUSION BOUNDARY CALCULATIONS:

E SECTOR BOUNDARY DISTANCE = 414.0 METERS  
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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.

3.340E-05	1.343E-05	9.048E-06	7.433E-06	5.575E-06	4.629E-06	4.460E-06	3.859E-06	3.756E-06	3.717E-06
0.002	0.030	0.048	0.104	0.217	0.245	0.301	0.386	0.470	0.583
0.00014	0.00240	0.00389	0.00846	0.01761	0.01989	0.02447	0.03132	0.03818	0.04732
3.470E-06	3.215E-06	3.052E-06	3.005E-06	2.794E-06	2.778E-06	2.504E-06	2.410E-06	2.314E-06	2.288E-06
0.724	0.921	1.061	1.146	1.540	1.737	1.822	2.413	2.891	3.285
0.05875	0.07476	0.08619	0.09304	0.12505	0.14105	0.14791	0.19591	0.23477	0.26678
1.928E-06	1.882E-06	1.861E-06	1.832E-06	1.735E-06	1.526E-06	1.395E-06	1.388E-06	1.254E-06	1.144E-06
3.877	4.102	5.791	6.607	7.902	9.197	11.844	12.519	13.026	15.222
0.31478	0.33307	0.47023	0.53652	0.64168	0.74683	0.96172	1.01658	1.05773	1.23603
1.117E-06	9.402E-07	9.305E-07	9.154E-07	8.741E-07	8.395E-07	7.844E-07	7.526E-07	6.976E-07	6.270E-07
18.460	19.417	24.006	25.160	25.199	25.255	25.649	26.804	35.080	37.727
1.49892	1.57664	1.94926	2.04298	2.04614	2.05071	2.08272	2.17644	2.84852	3.06340
5.647E-07	5.592E-07	5.582E-07	4.839E-07	4.701E-07	4.193E-07	3.761E-07	3.723E-07	3.629E-07	3.356E-07
38.684	39.078	45.525	45.553	52.338	52.732	61.487	62.332	62.388	62.979
3.14112	3.17313	3.69661	3.69890	4.24982	4.28182	4.99276	5.06134	5.06591	5.11392
2.903E-07	2.796E-07	2.419E-07	2.270E-07	2.096E-07	1.819E-07	1.677E-07	1.530E-07	1.211E-07	9.083E-08
63.036	64.077	64.162	68.723	71.791	72.073	77.422	81.645	82.433	83.362
5.11849	5.20307	5.20993	5.58026	5.82943	5.85229	6.28662	6.62952	6.69353	6.76896
7.271E-08	6.823E-08	6.057E-08	4.541E-08	3.634E-08	1.478E-08				
84.572	89.612	91.047	94.510	97.438	100.000				
6.86726	7.27645	7.39303	7.67421	7.91195	8.11998				

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 = 3.340E-05 DISTANCE = 800.000

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)= 0.059  
 HANDCHECK GRAPH: SLOPE LT -1.0 FOR LOW PERCENTAGES. XSAVE ( 6)= 1.015  
 HANDCHECK GRAPH: SLOPE LT -1.0 FOR LOW PERCENTAGES. XSAVE ( 7)= 1.497  
 HANDCHECK GRAPH: SLOPE LT -1.0 FOR LOW PERCENTAGES. XSAVE ( 8)= 2.041  
 HANDCHECK GRAPH: SLOPE LT -1.0 FOR LOW PERCENTAGES. XSAVE ( 9)= 3.693

K	I	XQSAVE(K, I)	XQINT(K, I)	XQSLOP(K, I)
13	1	-10.30702	-17.23910	-1.48101
13	2	-11.21821	-17.92382	-1.64943
13	3	-12.57124	-15.36745	-0.86167
13	4	-12.79371	-15.61594	-0.94486
13	5	-13.26439	-16.56353	-1.32561
13	6	-13.48731	-16.85841	-1.45268
13	7	-13.70491	-17.14829	-1.58622
13	8	-13.90386	-17.82591	-1.91751
13	9	-14.39850	NUMXQ(K)= 9	
		3.202E-06	0.081	1.000
		2.363E-06	0.244	3.000
		2.016E-06	0.406	5.000
		1.551E-06	0.812	10.000
		1.256E-06	1.218	15.000
		1.062E-06	1.624	20.000
		9.193E-07	2.030	25.000
		7.945E-07	2.436	30.000
		6.993E-07	2.842	35.000
		6.245E-07	3.248	40.000
		5.639E-07	3.654	45.000
		1.885E-06	0.5	6.16

ANNUAL AVERAGE = 6.08E-09

K= 13 FIVEXQ(K)= 1.885E-06 FIVEPR(K)= 6.158

FUMIGATION X/Q AT THE BOUNDARY: 1.07E-04

EXPONENTIAL TERM AND FREQUENCIES

4.773E-01	4.493E-01	4.286E-01	2.388E-01	2.312E-01	1.864E-01	5.166E-02
15.934	17.792	21.567	47.091	79.297	86.138	100.000

USNRC COMPUTER CODE-PAVAN, VERSION 2.0

RUN DATE: 03/14/07

PLANT NAME: Oyster Creek

METEOROLOGICAL INSTRUMENTATION

DATA PERIOD:

WIND SENSORS HEIGHT: 112 meters

TYPE OF RELEASE: Elevated Release

DELTA-T HEIGHTS: 10.1-115.8 meters

SOURCE OF DATA:

COMMENTS: Oyster Creek, Elevated Release, Stack, 1995-1999 met data

PROGRAM: PAVAN, 10/76, 8/79 REVISION, IMPLEMENTATION OF REGULATORY GUIDE 1.145

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

CLASS	METER/SEC	PERCENT	METERS	METERS	EFF PLUME HT METERS	SIGMA-Y METERS	SIGMA-Z METERS	MEANDER-SY METERS	** CHI/Q VALUES (SEC/CUBIC METER)		
									MEANDER	BLDG WAKE	USED
									CA= 957.SQ.METERS		
AT 112.0 METERS											
A	3.0	0.02	414.	0.	112.	84.5	88.5	0.0	0.000E+00	0.000E+00	6.429E-06
A	4.0	0.06	414.	0.	112.	84.5	88.5	0.0	0.000E+00	0.000E+00	4.820E-06
A	5.0	0.04	414.	0.	112.	84.5	88.5	0.0	0.000E+00	0.000E+00	3.859E-06
A	5.9	0.06	414.	0.	112.	84.5	88.5	0.0	0.000E+00	0.000E+00	3.215E-06
A	7.9	0.73	414.	0.	112.	84.5	88.5	0.0	0.000E+00	0.000E+00	2.410E-06
A	9.9	0.99	414.	0.	112.	84.5	88.5	0.0	0.000E+00	0.000E+00	1.928E-06
A	24.4	0.97	414.	0.	112.	84.5	88.5	0.0	0.000E+00	0.000E+00	7.844E-07
B	0.4	0.00	800.	0.	112.	115.2	86.0	0.0	0.000E+00	0.000E+00	3.340E-05
B	4.0	0.02	800.	0.	112.	115.2	86.0	0.0	0.000E+00	0.000E+00	3.470E-06
B	5.0	0.16	800.	0.	112.	115.2	86.0	0.0	0.000E+00	0.000E+00	2.778E-06
B	5.9	0.40	800.	0.	112.	115.2	86.0	0.0	0.000E+00	0.000E+00	2.314E-06
B	7.9	1.03	800.	0.	112.	115.2	86.0	0.0	0.000E+00	0.000E+00	1.735E-06
B	9.9	1.44	800.	0.	112.	115.2	86.0	0.0	0.000E+00	0.000E+00	1.388E-06
B	24.4	1.50	800.	0.	112.	115.2	86.0	0.0	0.000E+00	0.000E+00	5.647E-07
C	3.0	0.08	1000.	0.	112.	107.0	61.1	0.0	0.000E+00	0.000E+00	3.052E-06
C	4.0	0.36	1000.	0.	112.	107.0	61.1	0.0	0.000E+00	0.000E+00	2.288E-06
C	5.0	0.61	1000.	0.	112.	107.0	61.1	0.0	0.000E+00	0.000E+00	1.832E-06
C	5.9	0.81	1000.	0.	112.	107.0	61.1	0.0	0.000E+00	0.000E+00	1.526E-06
C	7.9	2.00	1000.	0.	112.	107.0	61.1	0.0	0.000E+00	0.000E+00	1.144E-06
C	9.9	2.16	1000.	0.	112.	107.0	61.1	0.0	0.000E+00	0.000E+00	9.154E-07
C	24.4	2.75	1000.	0.	112.	107.0	61.1	0.0	0.000E+00	0.000E+00	3.723E-07
D	0.4	0.00	3000.	0.	112.	203.1	65.4	0.0	0.000E+00	0.000E+00	1.343E-05
D	1.2	0.02	3000.	0.	112.	203.1	65.4	0.0	0.000E+00	0.000E+00	4.460E-06
D	1.5	0.08	3000.	0.	112.	203.1	65.4	0.0	0.000E+00	0.000E+00	3.717E-06
D	2.0	0.24	3000.	0.	112.	203.1	65.4	0.0	0.000E+00	0.000E+00	2.794E-06
D	3.0	1.29	3000.	0.	112.	203.1	65.4	0.0	0.000E+00	0.000E+00	1.861E-06
D	4.0	1.88	3000.	0.	112.	203.1	65.4	0.0	0.000E+00	0.000E+00	1.395E-06
D	5.0	2.81	3000.	0.	112.	203.1	65.4	0.0	0.000E+00	0.000E+00	1.117E-06
D	5.9	3.32	3000.	0.	112.	203.1	65.4	0.0	0.000E+00	0.000E+00	9.305E-07
D	7.9	7.50	3000.	0.	112.	203.1	65.4	0.0	0.000E+00	0.000E+00	6.976E-07
D	9.9	7.44	3000.	0.	112.	203.1	65.4	0.0	0.000E+00	0.000E+00	5.582E-07
D	24.4	10.27	3000.	0.	112.	203.1	65.4	0.0	0.000E+00	0.000E+00	2.270E-07
E	0.4	0.01	7000.	0.	112.	310.5	66.2	0.0	0.000E+00	0.000E+00	9.048E-06
E	0.7	0.02	7000.	0.	112.	310.5	66.2	0.0	0.000E+00	0.000E+00	5.009E-06
E	1.0	0.04	7000.	0.	112.	310.5	66.2	0.0	0.000E+00	0.000E+00	3.756E-06
E	1.2	0.06	7000.	0.	112.	310.5	66.2	0.0	0.000E+00	0.000E+00	3.005E-06
E	1.5	0.04	7000.	0.	112.	310.5	66.2	0.0	0.000E+00	0.000E+00	2.504E-06
E	2.0	0.12	7000.	0.	112.	310.5	66.2	0.0	0.000E+00	0.000E+00	1.882E-06
E	3.0	0.65	7000.	0.	112.	310.5	66.2	0.0	0.000E+00	0.000E+00	1.254E-06

E	3.9	0.57	7000.	0.	112.	310.5	66.2	0.0	0.000E+00	0.000E+00	9.402E-07
E	4.9	0.95	7000.	0.	112.	310.5	66.2	0.0	0.000E+00	0.000E+00	7.526E-07
E	5.9	1.50	7000.	0.	112.	310.5	66.2	0.0	0.000E+00	0.000E+00	6.270E-07
E	7.9	6.01	7000.	0.	112.	310.5	66.2	0.0	0.000E+00	0.000E+00	4.701E-07
E	9.8	10.39	7000.	0.	112.	310.5	66.2	0.0	0.000E+00	0.000E+00	3.761E-07
E	24.2	6.39	7000.	0.	112.	310.5	66.2	0.0	0.000E+00	0.000E+00	1.530E-07
F	0.4	0.01	90000.	0.	112.	1000.0	92.1	0.0	0.000E+00	0.000E+00	4.035E-06
F	0.7	0.02	90000.	0.	112.	1000.0	92.1	0.0	0.000E+00	0.000E+00	2.234E-06
F	1.0	0.04	90000.	0.	112.	1000.0	92.1	0.0	0.000E+00	0.000E+00	1.675E-06
F	1.5	0.04	90000.	0.	112.	1000.0	92.1	0.0	0.000E+00	0.000E+00	1.117E-06
F	2.0	0.04	90000.	0.	112.	1000.0	92.1	0.0	0.000E+00	0.000E+00	8.395E-07
F	3.0	0.16	90000.	0.	112.	1000.0	92.1	0.0	0.000E+00	0.000E+00	5.592E-07
F	3.9	0.55	90000.	0.	112.	1000.0	92.1	0.0	0.000E+00	0.000E+00	4.193E-07
F	4.9	0.59	90000.	0.	112.	1000.0	92.1	0.0	0.000E+00	0.000E+00	3.356E-07
F	5.9	1.07	90000.	0.	112.	1000.0	92.1	0.0	0.000E+00	0.000E+00	2.796E-07
F	7.9	3.52	90000.	0.	112.	1000.0	92.1	0.0	0.000E+00	0.000E+00	2.096E-07
F	9.8	4.06	90000.	0.	112.	1000.0	92.1	0.0	0.000E+00	0.000E+00	1.677E-07
F	24.2	2.97	90000.	0.	112.	1000.0	92.1	0.0	0.000E+00	0.000E+00	6.823E-08
G	0.4	0.02	90000.	0.	112.	1000.0	46.0	0.0	0.000E+00	0.000E+00	8.741E-07
G	1.0	0.02	90000.	0.	112.	1000.0	46.0	0.0	0.000E+00	0.000E+00	3.629E-07
G	1.2	0.04	90000.	0.	112.	1000.0	46.0	0.0	0.000E+00	0.000E+00	2.903E-07
G	1.5	0.04	90000.	0.	112.	1000.0	46.0	0.0	0.000E+00	0.000E+00	2.419E-07
G	2.0	0.12	90000.	0.	112.	1000.0	46.0	0.0	0.000E+00	0.000E+00	1.819E-07
G	3.0	0.57	90000.	0.	112.	1000.0	46.0	0.0	0.000E+00	0.000E+00	1.211E-07
G	3.9	0.49	90000.	0.	112.	1000.0	46.0	0.0	0.000E+00	0.000E+00	9.083E-08
G	4.9	0.83	90000.	0.	112.	1000.0	46.0	0.0	0.000E+00	0.000E+00	7.271E-08
G	5.9	1.05	90000.	0.	112.	1000.0	46.0	0.0	0.000E+00	0.000E+00	6.057E-08
G	7.9	2.57	90000.	0.	112.	1000.0	46.0	0.0	0.000E+00	0.000E+00	4.541E-08
G	9.8	2.04	90000.	0.	112.	1000.0	46.0	0.0	0.000E+00	0.000E+00	3.634E-08
G	24.2	1.33	90000.	0.	112.	1000.0	46.0	0.0	0.000E+00	0.000E+00	1.478E-08

USNRC COMPUTER CODE-PAVAN, VERSION 2.0

RUN DATE: 03/14/07

PLANT NAME: Oyster Creek

METEOROLOGICAL INSTRUMENTATION

DATA PERIOD:

WIND SENSORS HEIGHT: 112 meters

TYPE OF RELEASE: Elevated Release

DELTA-T HEIGHTS: 10.1-115.8 meters

SOURCE OF DATA:

COMMENTS: Oyster Creek, Elevated Release, Stack, 1995-1999 met data

PROGRAM: PAVAN, 10/76, 8/79 REVISION, IMPLEMENTATION OF REGULATORY GUIDE 1.145

SITE EXCLUSION BOUNDARY CALCULATIONS:

ESE SECTOR BOUNDARY DISTANCE = 414.0 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.

3.340E-05	1.343E-05	9.048E-06	6.429E-06	5.009E-06	4.820E-06	4.460E-06	4.035E-06	3.859E-06	3.756E-06
0.001	0.004	0.017	0.037	0.057	0.118	0.138	0.148	0.188	0.229
0.00014	0.00042	0.00192	0.00420	0.00649	0.01335	0.01563	0.01674	0.02131	0.02588
3.717E-06	3.470E-06	3.215E-06	3.052E-06	3.005E-06	2.794E-06	2.778E-06	2.504E-06	2.410E-06	2.314E-06
0.310	0.330	0.391	0.472	0.532	0.775	0.937	0.977	1.705	2.110
0.03502	0.03731	0.04417	0.05331	0.06017	0.08760	0.10589	0.11046	0.19276	0.23848
2.288E-06	2.234E-06	1.928E-06	1.882E-06	1.861E-06	1.832E-06	1.735E-06	1.675E-06	1.526E-06	1.395E-06
2.474	2.494	3.485	3.606	4.900	5.507	6.538	6.579	7.387	9.268
0.27962	0.28191	0.39392	0.40764	0.55394	0.62252	0.73910	0.74368	0.83512	1.04771
1.388E-06	1.254E-06	1.144E-06	1.117E-06	1.117E-06	9.402E-07	9.305E-07	9.154E-07	8.741E-07	8.395E-07
10.704	11.351	13.353	16.164	16.204	16.770	20.087	22.251	22.267	22.308
1.21002	1.28317	1.50948	1.82723	1.83180	1.89581	2.27071	2.51531	2.51720	2.52178
7.844E-07	7.526E-07	6.976E-07	6.270E-07	5.647E-07	5.592E-07	5.582E-07	4.701E-07	4.193E-07	3.761E-07
23.278	24.229	31.731	33.228	34.724	34.886	42.327	48.333	48.879	59.273
2.63150	2.73894	3.58704	3.75620	3.92536	3.94365	4.78489	5.46383	5.52555	6.70054
3.723E-07	3.629E-07	3.356E-07	2.903E-07	2.796E-07	2.419E-07	2.270E-07	2.096E-07	1.819E-07	1.677E-07
62.023	62.044	62.630	62.670	63.742	63.783	74.055	77.574	77.695	81.760
7.01143	7.01372	7.08001	7.08458	7.20574	7.21031	8.37159	8.76935	8.78306	9.24254
1.530E-07	1.211E-07	9.083E-08	7.271E-08	6.823E-08	6.057E-08	4.541E-08	3.634E-08	1.478E-08	
88.150	88.716	89.202	90.031	93.003	94.055	96.623	98.665	100.000	
9.96491	10.02892	10.08378	10.17751	10.51355	10.63242	10.92273	11.15362	11.30449	

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 = 3.340E-05 DISTANCE = 800.000

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)= 0.026  
 HANDCHECK GRAPH: SLOPE LT -1.0 FOR LOW PERCENTAGES. XSAVE ( 8)= 1.209  
 HANDCHECK GRAPH: SLOPE LT -1.0 FOR LOW PERCENTAGES. XSAVE ( 9)= 1.830  
 HANDCHECK GRAPH: SLOPE LT -1.0 FOR LOW PERCENTAGES. XSAVE (10)= 2.513

K	I	XQSAVE(K, I)	XQINT(K, I)	XQSLOP(K, I)
14	1	-10.30702	-18.76631	-1.80729
14	2	-12.49203	-12.94423	-0.13025
14	3	-12.50272	-15.33386	-0.83524
14	4	-12.97633	-13.60541	-0.22287
14	5	-12.98780	-15.25768	-0.81912
14	6	-13.21027	-15.41227	-0.88097
14	7	-13.26439	-16.22263	-1.21334
14	8	-13.48731	-16.47744	-1.32637
14	9	-13.70502	-16.84296	-1.50124
14	10	-13.90386	NUMXQ(K)= 10	
		2.808E-06	0.113	1.000
		2.172E-06	0.339	3.000
		1.883E-06	0.565	5.000
		1.433E-06	1.130	10.000
		1.164E-06	1.696	15.000
		9.798E-07	2.261	20.000
		1.950E-06	0.5	4.42

ANNUAL AVERAGE = 1.10E-08

K= 14 FIVEXQ(K)= 1.950E-06 FIVEPR(K)= 4.423

FUMIGATION X/Q AT THE BOUNDARY: 1.07E-04

EXPONENTIAL TERM AND FREQUENCIES

4.773E-01	4.493E-01	4.286E-01	2.388E-01	2.312E-01	1.864E-01	5.166E-02
13.073	15.945	20.496	47.242	82.107	90.883	100.000

USNRC COMPUTER CODE-PAVAN, VERSION 2.0

RUN DATE: 03/14/07

PLANT NAME: Oyster Creek

METEOROLOGICAL INSTRUMENTATION

DATA PERIOD:

WIND SENSORS HEIGHT: 112 meters

TYPE OF RELEASE: Elevated Release

DELTA-T HEIGHTS: 10.1-115.8 meters

SOURCE OF DATA:

COMMENTS: Oyster Creek, Elevated Release, Stack, 1995-1999 met data

PROGRAM: PAVAN, 10/76, 8/79 REVISION, IMPLEMENTATION OF REGULATORY GUIDE 1.145

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

CLASS	METER/SEC	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	USED
AT 112.0 METERS											
A	4.0	0.02	414.	0.	112.	84.5	88.5	0.0	0.000E+00	0.000E+00	4.820E-06
A	5.0	0.02	414.	0.	112.	84.5	88.5	0.0	0.000E+00	0.000E+00	3.859E-06
A	5.9	0.09	414.	0.	112.	84.5	88.5	0.0	0.000E+00	0.000E+00	3.215E-06
A	7.9	0.64	414.	0.	112.	84.5	88.5	0.0	0.000E+00	0.000E+00	2.410E-06
A	9.9	0.94	414.	0.	112.	84.5	88.5	0.0	0.000E+00	0.000E+00	1.928E-06
A	24.4	1.19	414.	0.	112.	84.5	88.5	0.0	0.000E+00	0.000E+00	7.844E-07
B	0.4	0.00	800.	0.	112.	115.2	86.0	0.0	0.000E+00	0.000E+00	3.340E-05
B	4.0	0.02	800.	0.	112.	115.2	86.0	0.0	0.000E+00	0.000E+00	3.470E-06
B	5.0	0.21	800.	0.	112.	115.2	86.0	0.0	0.000E+00	0.000E+00	2.778E-06
B	5.9	0.55	800.	0.	112.	115.2	86.0	0.0	0.000E+00	0.000E+00	2.314E-06
B	7.9	1.55	800.	0.	112.	115.2	86.0	0.0	0.000E+00	0.000E+00	1.735E-06
B	9.9	1.32	800.	0.	112.	115.2	86.0	0.0	0.000E+00	0.000E+00	1.388E-06
B	24.4	1.26	800.	0.	112.	115.2	86.0	0.0	0.000E+00	0.000E+00	5.647E-07
C	2.0	0.09	1000.	0.	112.	107.0	61.1	0.0	0.000E+00	0.000E+00	4.581E-06
C	3.0	0.09	1000.	0.	112.	107.0	61.1	0.0	0.000E+00	0.000E+00	3.052E-06
C	4.0	0.23	1000.	0.	112.	107.0	61.1	0.0	0.000E+00	0.000E+00	2.288E-06
C	5.0	0.83	1000.	0.	112.	107.0	61.1	0.0	0.000E+00	0.000E+00	1.832E-06
C	5.9	1.11	1000.	0.	112.	107.0	61.1	0.0	0.000E+00	0.000E+00	1.526E-06
C	7.9	2.15	1000.	0.	112.	107.0	61.1	0.0	0.000E+00	0.000E+00	1.144E-06
C	9.9	1.92	1000.	0.	112.	107.0	61.1	0.0	0.000E+00	0.000E+00	9.154E-07
C	24.4	2.04	1000.	0.	112.	107.0	61.1	0.0	0.000E+00	0.000E+00	3.723E-07
D	0.4	0.03	3000.	0.	112.	203.1	65.4	0.0	0.000E+00	0.000E+00	1.343E-05
D	0.7	0.04	3000.	0.	112.	203.1	65.4	0.0	0.000E+00	0.000E+00	7.433E-06
D	1.0	0.06	3000.	0.	112.	203.1	65.4	0.0	0.000E+00	0.000E+00	5.575E-06
D	1.2	0.11	3000.	0.	112.	203.1	65.4	0.0	0.000E+00	0.000E+00	4.460E-06
D	1.5	0.17	3000.	0.	112.	203.1	65.4	0.0	0.000E+00	0.000E+00	3.717E-06
D	2.0	0.49	3000.	0.	112.	203.1	65.4	0.0	0.000E+00	0.000E+00	2.794E-06
D	3.0	1.30	3000.	0.	112.	203.1	65.4	0.0	0.000E+00	0.000E+00	1.861E-06
D	4.0	2.66	3000.	0.	112.	203.1	65.4	0.0	0.000E+00	0.000E+00	1.395E-06
D	5.0	3.66	3000.	0.	112.	203.1	65.4	0.0	0.000E+00	0.000E+00	1.117E-06
D	5.9	4.07	3000.	0.	112.	203.1	65.4	0.0	0.000E+00	0.000E+00	9.305E-07
D	7.9	8.24	3000.	0.	112.	203.1	65.4	0.0	0.000E+00	0.000E+00	6.976E-07
D	9.9	7.17	3000.	0.	112.	203.1	65.4	0.0	0.000E+00	0.000E+00	5.582E-07
D	24.4	8.09	3000.	0.	112.	203.1	65.4	0.0	0.000E+00	0.000E+00	2.270E-07
E	0.4	0.01	7000.	0.	112.	310.5	66.2	0.0	0.000E+00	0.000E+00	9.048E-06
E	0.7	0.02	7000.	0.	112.	310.5	66.2	0.0	0.000E+00	0.000E+00	5.009E-06
E	1.0	0.04	7000.	0.	112.	310.5	66.2	0.0	0.000E+00	0.000E+00	3.756E-06
E	1.2	0.04	7000.	0.	112.	310.5	66.2	0.0	0.000E+00	0.000E+00	3.005E-06
E	1.5	0.11	7000.	0.	112.	310.5	66.2	0.0	0.000E+00	0.000E+00	2.504E-06

E	2.0	0.13	7000.	0.	112.	310.5	66.2	0.0	0.000E+00	0.000E+00	1.882E-06
E	3.0	0.43	7000.	0.	112.	310.5	66.2	0.0	0.000E+00	0.000E+00	1.254E-06
E	3.9	0.74	7000.	0.	112.	310.5	66.2	0.0	0.000E+00	0.000E+00	9.402E-07
E	4.9	1.28	7000.	0.	112.	310.5	66.2	0.0	0.000E+00	0.000E+00	7.526E-07
E	5.9	1.60	7000.	0.	112.	310.5	66.2	0.0	0.000E+00	0.000E+00	6.270E-07
E	7.9	6.56	7000.	0.	112.	310.5	66.2	0.0	0.000E+00	0.000E+00	4.701E-07
E	9.8	8.73	7000.	0.	112.	310.5	66.2	0.0	0.000E+00	0.000E+00	3.761E-07
E	24.2	4.60	7000.	0.	112.	310.5	66.2	0.0	0.000E+00	0.000E+00	1.530E-07
F	0.4	0.01	90000.	0.	112.	1000.0	92.1	0.0	0.000E+00	0.000E+00	4.035E-06
F	0.7	0.02	90000.	0.	112.	1000.0	92.1	0.0	0.000E+00	0.000E+00	2.234E-06
F	1.0	0.02	90000.	0.	112.	1000.0	92.1	0.0	0.000E+00	0.000E+00	1.675E-06
F	1.2	0.04	90000.	0.	112.	1000.0	92.1	0.0	0.000E+00	0.000E+00	1.340E-06
F	1.5	0.02	90000.	0.	112.	1000.0	92.1	0.0	0.000E+00	0.000E+00	1.117E-06
F	2.0	0.11	90000.	0.	112.	1000.0	92.1	0.0	0.000E+00	0.000E+00	8.395E-07
F	3.0	0.32	90000.	0.	112.	1000.0	92.1	0.0	0.000E+00	0.000E+00	5.592E-07
F	3.9	0.51	90000.	0.	112.	1000.0	92.1	0.0	0.000E+00	0.000E+00	4.193E-07
F	4.9	0.66	90000.	0.	112.	1000.0	92.1	0.0	0.000E+00	0.000E+00	3.356E-07
F	5.9	1.04	90000.	0.	112.	1000.0	92.1	0.0	0.000E+00	0.000E+00	2.796E-07
F	7.9	3.00	90000.	0.	112.	1000.0	92.1	0.0	0.000E+00	0.000E+00	2.096E-07
F	9.8	4.87	90000.	0.	112.	1000.0	92.1	0.0	0.000E+00	0.000E+00	1.677E-07
F	24.2	4.19	90000.	0.	112.	1000.0	92.1	0.0	0.000E+00	0.000E+00	6.823E-08
G	0.4	0.01	90000.	0.	112.	1000.0	46.0	0.0	0.000E+00	0.000E+00	8.741E-07
G	1.0	0.02	90000.	0.	112.	1000.0	46.0	0.0	0.000E+00	0.000E+00	3.629E-07
G	1.2	0.02	90000.	0.	112.	1000.0	46.0	0.0	0.000E+00	0.000E+00	2.903E-07
G	1.5	0.02	90000.	0.	112.	1000.0	46.0	0.0	0.000E+00	0.000E+00	2.419E-07
G	2.0	0.11	90000.	0.	112.	1000.0	46.0	0.0	0.000E+00	0.000E+00	1.819E-07
G	3.0	0.34	90000.	0.	112.	1000.0	46.0	0.0	0.000E+00	0.000E+00	1.211E-07
G	3.9	0.66	90000.	0.	112.	1000.0	46.0	0.0	0.000E+00	0.000E+00	9.083E-08
G	4.9	0.94	90000.	0.	112.	1000.0	46.0	0.0	0.000E+00	0.000E+00	7.271E-08
G	5.9	1.36	90000.	0.	112.	1000.0	46.0	0.0	0.000E+00	0.000E+00	6.057E-08
G	7.9	2.62	90000.	0.	112.	1000.0	46.0	0.0	0.000E+00	0.000E+00	4.541E-08
G	9.8	1.92	90000.	0.	112.	1000.0	46.0	0.0	0.000E+00	0.000E+00	3.634E-08
G	24.2	0.53	90000.	0.	112.	1000.0	46.0	0.0	0.000E+00	0.000E+00	1.478E-08

USNRC COMPUTER CODE-PAVAN, VERSION 2.0

RUN DATE: 03/14/07

PLANT NAME: Oyster Creek

METEOROLOGICAL INSTRUMENTATION

DATA PERIOD:

WIND SENSORS HEIGHT: 112 meters

TYPE OF RELEASE: Elevated Release

DELTA-T HEIGHTS: 10.1-115.8 meters

SOURCE OF DATA:

COMMENTS: Oyster Creek, Elevated Release, Stack, 1995-1999 met data

PROGRAM: PAVAN, 10/76, 8/79 REVISION, IMPLEMENTATION OF REGULATORY GUIDE 1.145

SITE EXCLUSION BOUNDARY CALCULATIONS:

SE SECTOR BOUNDARY DISTANCE = 414.0 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.

3.340E-05	1.343E-05	9.048E-06	7.433E-06	5.575E-06	5.009E-06	4.820E-06	4.581E-06	4.460E-06	4.035E-06
0.001	0.028	0.039	0.082	0.146	0.167	0.188	0.273	0.380	0.393
0.00014	0.00296	0.00421	0.00878	0.01564	0.01792	0.02021	0.02935	0.04078	0.04225
3.859E-06	3.756E-06	3.717E-06	3.470E-06	3.215E-06	3.052E-06	3.005E-06	2.794E-06	2.778E-06	2.504E-06
0.415	0.457	0.628	0.649	0.734	0.819	0.862	1.351	1.564	1.671
0.04454	0.04911	0.06740	0.06968	0.07883	0.08797	0.09254	0.14512	0.16798	0.17941
2.410E-06	2.314E-06	2.288E-06	2.234E-06	1.928E-06	1.882E-06	1.861E-06	1.832E-06	1.735E-06	1.675E-06
2.309	2.863	3.097	3.118	4.055	4.182	5.481	6.311	7.865	7.886
0.24799	0.30742	0.33257	0.33486	0.43544	0.44915	0.58860	0.67775	0.84463	0.84691
1.526E-06	1.395E-06	1.388E-06	1.340E-06	1.254E-06	1.144E-06	1.117E-06	1.117E-06	9.402E-07	9.305E-07
8.993	11.653	12.973	13.016	13.441	15.591	19.252	19.274	20.019	24.084
0.96579	1.25153	1.39326	1.39783	1.44355	1.67444	2.06763	2.06991	2.14992	2.58654
9.154E-07	8.741E-07	8.395E-07	7.844E-07	7.526E-07	6.976E-07	6.270E-07	5.647E-07	5.592E-07	5.582E-07
26.000	26.012	26.118	27.310	28.587	36.825	38.421	39.677	39.996	47.169
2.79228	2.79354	2.80497	2.93299	3.07015	3.95482	4.12627	4.26114	4.29543	5.06580
4.701E-07	4.193E-07	3.761E-07	3.723E-07	3.629E-07	3.356E-07	2.903E-07	2.796E-07	2.419E-07	2.270E-07
53.725	54.236	62.963	65.007	65.028	65.688	65.709	66.752	66.773	74.862
5.76988	5.82475	6.76200	6.98145	6.98374	7.05460	7.05689	7.16890	7.17119	8.03986
2.096E-07	1.819E-07	1.677E-07	1.530E-07	1.211E-07	9.083E-08	7.271E-08	6.823E-08	6.057E-08	4.541E-08
77.863	77.970	82.844	87.442	87.782	88.442	89.379	93.572	94.934	97.552
8.36218	8.37361	8.89710	9.39087	9.42744	9.49831	9.59889	10.04923	10.19553	10.47671
3.634E-08	1.478E-08								
99.468	100.000								
10.68245	10.73959								

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 = 3.340E-05 DISTANCE = 800.000

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)= 0.003  
 HANDCHECK GRAPH: SLOPE LT -1.0 FOR LOW PERCENTAGES. XSAVE ( 3)= 0.041  
 HANDCHECK GRAPH: SLOPE LT -1.0 FOR LOW PERCENTAGES. XSAVE ( 4)= 0.145  
 HANDCHECK GRAPH: SLOPE LT -1.0 FOR LOW PERCENTAGES. XSAVE ( 8)= 1.392  
 HANDCHECK GRAPH: SLOPE LT -1.0 FOR LOW PERCENTAGES. XSAVE ( 9)= 2.068  
 HANDCHECK GRAPH: SLOPE LT -1.0 FOR LOW PERCENTAGES. XSAVE (10)= 2.790

K	I	XQSAVE(K, I)	XQINT(K, I)	XQSLOP(K, I)
15	1	-10.30702	-16.72289	-1.37072
15	2	-11.21821	-17.84189	-1.64936
15	3	-12.32040	-16.55902	-1.26615
15	4	-12.78817	-13.15426	-0.12292
15	5	-12.79371	-15.39423	-0.88661
15	6	-12.98780	-15.29970	-0.85178
15	7	-13.26439	-16.07011	-1.17420
15	8	-13.48731	-16.48656	-1.36353
15	9	-13.70502	-16.89165	-1.56211
15	10	-13.90386	NUMXQ(K)= 10	
		3.135E-06	0.107	1.000
		2.309E-06	0.322	3.000
		1.992E-06	0.537	5.000
		1.562E-06	1.074	10.000
		1.284E-06	1.611	15.000
		1.090E-06	2.148	20.000
		9.401E-07	2.685	25.000
		2.034E-06	0.5	4.66

ANNUAL AVERAGE = 1.01E-08

K= 15 FIVEXQ(K)= 2.034E-06 FIVEPR(K)= 4.656

FUMIGATION X/Q AT THE BOUNDARY: 1.07E-04

EXPONENTIAL TERM AND FREQUENCIES

4.773E-01	4.493E-01	4.286E-01	2.388E-01	2.312E-01	1.864E-01	5.166E-02
14.828	17.723	22.641	46.919	83.002	91.453	100.000

USNRC COMPUTER CODE-PAVAN, VERSION 2.0

RUN DATE: 03/14/07

PLANT NAME: Oyster Creek

METEOROLOGICAL INSTRUMENTATION

DATA PERIOD:

WIND SENSORS HEIGHT: 112 meters

TYPE OF RELEASE: Elevated Release

DELTA-T HEIGHTS: 10.1-115.8 meters

SOURCE OF DATA:

COMMENTS: Oyster Creek, Elevated Release, Stack, 1995-1999 met data

PROGRAM: PAVAN, 10/76, 8/79 REVISION, IMPLEMENTATION OF REGULATORY GUIDE 1.145

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

CLASS	METER/SEC	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	USED	
AT 112.0 METERS												
A	2.0	0.03	414.	0.	112.	84.5	88.5	0.0	0.000E+00	0.000E+00	9.651E-06	
A	4.0	0.03	414.	0.	112.	84.5	88.5	0.0	0.000E+00	0.000E+00	4.820E-06	
A	5.0	0.03	414.	0.	112.	84.5	88.5	0.0	0.000E+00	0.000E+00	3.859E-06	
A	7.9	0.13	414.	0.	112.	84.5	88.5	0.0	0.000E+00	0.000E+00	2.410E-06	
A	9.9	0.20	414.	0.	112.	84.5	88.5	0.0	0.000E+00	0.000E+00	1.928E-06	
A	24.4	0.07	414.	0.	112.	84.5	88.5	0.0	0.000E+00	0.000E+00	7.844E-07	
CA= 957.SQ.METERS												
B	0.4	0.00	800.	0.	112.	115.2	86.0	0.0	0.000E+00	0.000E+00	3.340E-05	
B	3.0	0.03	800.	0.	112.	115.2	86.0	0.0	0.000E+00	0.000E+00	4.629E-06	
B	4.0	0.03	800.	0.	112.	115.2	86.0	0.0	0.000E+00	0.000E+00	3.470E-06	
B	5.0	0.17	800.	0.	112.	115.2	86.0	0.0	0.000E+00	0.000E+00	2.778E-06	
B	5.9	0.30	800.	0.	112.	115.2	86.0	0.0	0.000E+00	0.000E+00	2.314E-06	
B	7.9	0.74	800.	0.	112.	115.2	86.0	0.0	0.000E+00	0.000E+00	1.735E-06	
B	9.9	0.54	800.	0.	112.	115.2	86.0	0.0	0.000E+00	0.000E+00	1.388E-06	
B	24.4	0.24	800.	0.	112.	115.2	86.0	0.0	0.000E+00	0.000E+00	5.647E-07	
C	3.0	0.10	1000.	0.	112.	107.0	61.1	0.0	0.000E+00	0.000E+00	3.052E-06	
C	4.0	0.27	1000.	0.	112.	107.0	61.1	0.0	0.000E+00	0.000E+00	2.288E-06	
C	5.0	0.74	1000.	0.	112.	107.0	61.1	0.0	0.000E+00	0.000E+00	1.832E-06	
C	5.9	0.71	1000.	0.	112.	107.0	61.1	0.0	0.000E+00	0.000E+00	1.526E-06	
C	7.9	1.51	1000.	0.	112.	107.0	61.1	0.0	0.000E+00	0.000E+00	1.144E-06	
C	9.9	0.84	1000.	0.	112.	107.0	61.1	0.0	0.000E+00	0.000E+00	9.154E-07	
C	24.4	0.47	1000.	0.	112.	107.0	61.1	0.0	0.000E+00	0.000E+00	3.723E-07	
D	0.4	0.02	3000.	0.	112.	203.1	65.4	0.0	0.000E+00	0.000E+00	1.343E-05	
D	0.7	0.07	3000.	0.	112.	203.1	65.4	0.0	0.000E+00	0.000E+00	7.433E-06	
D	1.2	0.07	3000.	0.	112.	203.1	65.4	0.0	0.000E+00	0.000E+00	4.460E-06	
D	1.5	0.13	3000.	0.	112.	203.1	65.4	0.0	0.000E+00	0.000E+00	3.717E-06	
D	2.0	0.61	3000.	0.	112.	203.1	65.4	0.0	0.000E+00	0.000E+00	2.794E-06	
D	3.0	1.89	3000.	0.	112.	203.1	65.4	0.0	0.000E+00	0.000E+00	1.861E-06	
D	4.0	3.57	3000.	0.	112.	203.1	65.4	0.0	0.000E+00	0.000E+00	1.395E-06	
D	5.0	4.28	3000.	0.	112.	203.1	65.4	0.0	0.000E+00	0.000E+00	1.117E-06	
D	5.9	4.85	3000.	0.	112.	203.1	65.4	0.0	0.000E+00	0.000E+00	9.305E-07	
D	7.9	9.69	3000.	0.	112.	203.1	65.4	0.0	0.000E+00	0.000E+00	6.976E-07	
D	9.9	6.06	3000.	0.	112.	203.1	65.4	0.0	0.000E+00	0.000E+00	5.582E-07	
D	24.4	4.24	3000.	0.	112.	203.1	65.4	0.0	0.000E+00	0.000E+00	2.270E-07	
E	0.4	0.01	7000.	0.	112.	310.5	66.2	0.0	0.000E+00	0.000E+00	9.048E-06	
E	0.5	0.03	7000.	0.	112.	310.5	66.2	0.0	0.000E+00	0.000E+00	7.513E-06	
E	1.0	0.10	7000.	0.	112.	310.5	66.2	0.0	0.000E+00	0.000E+00	3.756E-06	
E	1.5	0.17	7000.	0.	112.	310.5	66.2	0.0	0.000E+00	0.000E+00	2.504E-06	
E	2.0	0.20	7000.	0.	112.	310.5	66.2	0.0	0.000E+00	0.000E+00	1.882E-06	
E	3.0	0.77	7000.	0.	112.	310.5	66.2	0.0	0.000E+00	0.000E+00	1.254E-06	

E	3.9	1.31	7000.	0.	112.	310.5	66.2	0.0	0.000E+00	0.000E+00	9.402E-07
E	4.9	1.55	7000.	0.	112.	310.5	66.2	0.0	0.000E+00	0.000E+00	7.526E-07
E	5.9	1.92	7000.	0.	112.	310.5	66.2	0.0	0.000E+00	0.000E+00	6.270E-07
E	7.9	7.14	7000.	0.	112.	310.5	66.2	0.0	0.000E+00	0.000E+00	4.701E-07
E	9.8	10.03	7000.	0.	112.	310.5	66.2	0.0	0.000E+00	0.000E+00	3.761E-07
E	24.2	4.11	7000.	0.	112.	310.5	66.2	0.0	0.000E+00	0.000E+00	1.530E-07
F	0.4	0.01	90000.	0.	112.	1000.0	92.1	0.0	0.000E+00	0.000E+00	4.035E-06
F	0.5	0.03	90000.	0.	112.	1000.0	92.1	0.0	0.000E+00	0.000E+00	3.350E-06
F	1.2	0.03	90000.	0.	112.	1000.0	92.1	0.0	0.000E+00	0.000E+00	1.340E-06
F	1.5	0.13	90000.	0.	112.	1000.0	92.1	0.0	0.000E+00	0.000E+00	1.117E-06
F	2.0	0.20	90000.	0.	112.	1000.0	92.1	0.0	0.000E+00	0.000E+00	8.395E-07
F	3.0	0.57	90000.	0.	112.	1000.0	92.1	0.0	0.000E+00	0.000E+00	5.592E-07
F	3.9	0.61	90000.	0.	112.	1000.0	92.1	0.0	0.000E+00	0.000E+00	4.193E-07
F	4.9	0.47	90000.	0.	112.	1000.0	92.1	0.0	0.000E+00	0.000E+00	3.356E-07
F	5.9	1.21	90000.	0.	112.	1000.0	92.1	0.0	0.000E+00	0.000E+00	2.796E-07
F	7.9	4.11	90000.	0.	112.	1000.0	92.1	0.0	0.000E+00	0.000E+00	2.096E-07
F	9.8	8.31	90000.	0.	112.	1000.0	92.1	0.0	0.000E+00	0.000E+00	1.677E-07
F	24.2	4.14	90000.	0.	112.	1000.0	92.1	0.0	0.000E+00	0.000E+00	6.823E-08
G	0.4	0.05	90000.	0.	112.	1000.0	46.0	0.0	0.000E+00	0.000E+00	8.741E-07
G	0.5	0.03	90000.	0.	112.	1000.0	46.0	0.0	0.000E+00	0.000E+00	7.258E-07
G	0.7	0.03	90000.	0.	112.	1000.0	46.0	0.0	0.000E+00	0.000E+00	4.839E-07
G	1.0	0.07	90000.	0.	112.	1000.0	46.0	0.0	0.000E+00	0.000E+00	3.629E-07
G	1.2	0.03	90000.	0.	112.	1000.0	46.0	0.0	0.000E+00	0.000E+00	2.903E-07
G	1.5	0.07	90000.	0.	112.	1000.0	46.0	0.0	0.000E+00	0.000E+00	2.419E-07
G	2.0	0.13	90000.	0.	112.	1000.0	46.0	0.0	0.000E+00	0.000E+00	1.819E-07
G	3.0	0.54	90000.	0.	112.	1000.0	46.0	0.0	0.000E+00	0.000E+00	1.211E-07
G	3.9	0.94	90000.	0.	112.	1000.0	46.0	0.0	0.000E+00	0.000E+00	9.083E-08
G	4.9	1.25	90000.	0.	112.	1000.0	46.0	0.0	0.000E+00	0.000E+00	7.271E-08
G	5.9	1.11	90000.	0.	112.	1000.0	46.0	0.0	0.000E+00	0.000E+00	6.057E-08
G	7.9	2.96	90000.	0.	112.	1000.0	46.0	0.0	0.000E+00	0.000E+00	4.541E-08
G	9.8	2.46	90000.	0.	112.	1000.0	46.0	0.0	0.000E+00	0.000E+00	3.634E-08
G	24.2	0.47	90000.	0.	112.	1000.0	46.0	0.0	0.000E+00	0.000E+00	1.478E-08

USNRC COMPUTER CODE-PAVAN, VERSION 2.0

RUN DATE: 03/14/07

PLANT NAME: Oyster Creek

METEOROLOGICAL INSTRUMENTATION

DATA PERIOD:

WIND SENSORS HEIGHT: 112 meters

TYPE OF RELEASE: Elevated Release

DELTA-T HEIGHTS: 10.1-115.8 meters

SOURCE OF DATA:

COMMENTS: Oyster Creek, Elevated Release, Stack, 1995-1999 met data

PROGRAM: PAVAN, 10/76, 8/79 REVISION, IMPLEMENTATION OF REGULATORY GUIDE 1.145

SITE EXCLUSION BOUNDARY CALCULATIONS:

SSE SECTOR BOUNDARY DISTANCE = 414.0 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.

3.340E-05	1.343E-05	9.651E-06	9.048E-06	7.513E-06	7.433E-06	4.820E-06	4.629E-06	4.460E-06	4.035E-06
0.002	0.019	0.052	0.067	0.101	0.168	0.202	0.235	0.303	0.313
0.00014	0.00127	0.00356	0.00455	0.00684	0.01141	0.01370	0.01598	0.02055	0.02129
3.859E-06	3.756E-06	3.717E-06	3.470E-06	3.350E-06	3.052E-06	2.794E-06	2.778E-06	2.504E-06	2.410E-06
0.347	0.448	0.583	0.616	0.650	0.751	1.357	1.525	1.694	1.828
0.02357	0.03043	0.03958	0.04186	0.04415	0.05101	0.09215	0.10358	0.11501	0.12416
2.314E-06	2.288E-06	1.928E-06	1.882E-06	1.861E-06	1.832E-06	1.735E-06	1.526E-06	1.395E-06	1.388E-06
2.131	2.401	2.603	2.804	4.690	5.430	6.171	6.878	10.446	10.984
0.14473	0.16302	0.17674	0.19045	0.31847	0.36876	0.41905	0.46705	0.70937	0.74594
1.340E-06	1.254E-06	1.144E-06	1.117E-06	1.117E-06	9.402E-07	9.305E-07	9.154E-07	8.741E-07	8.395E-07
11.018	11.792	13.307	17.582	17.717	19.030	23.877	24.719	24.765	24.967
0.74823	0.80081	0.90368	1.19399	1.20314	1.29229	1.62147	1.67862	1.68178	1.69549
7.844E-07	7.526E-07	7.258E-07	6.976E-07	6.270E-07	5.647E-07	5.592E-07	5.582E-07	4.839E-07	4.701E-07
25.034	26.583	26.616	36.311	38.230	38.466	39.038	45.097	45.131	52.267
1.70007	1.80522	1.80751	2.46587	2.59617	2.61217	2.65103	3.06251	3.06479	3.54942
4.193E-07	3.761E-07	3.723E-07	3.629E-07	3.356E-07	2.903E-07	2.796E-07	2.419E-07	2.270E-07	2.096E-07
52.873	62.904	63.376	63.443	63.914	63.948	65.160	65.227	69.468	73.575
3.59057	4.27179	4.30379	4.30836	4.34037	4.34265	4.42495	4.42952	4.71755	4.99644
1.819E-07	1.677E-07	1.530E-07	1.211E-07	9.083E-08	7.271E-08	6.823E-08	6.057E-08	4.541E-08	3.634E-08
73.710	82.024	86.131	86.670	87.612	88.858	92.998	94.109	97.071	99.529
5.00559	5.57022	5.84911	5.88569	5.94970	6.03428	6.31545	6.39089	6.59205	6.75893
1.478E-08									
100.000									
6.79093									

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 = 3.340E-05 DISTANCE = 800.000



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)= 0.011  
 HANDCHECK GRAPH: SLOPE LT -1.0 FOR LOW PERCENTAGES. XSAVE ( 3)= 0.040  
 HANDCHECK GRAPH: SLOPE LT -1.0 FOR LOW PERCENTAGES. XSAVE ( 4)= 0.103  
 HANDCHECK GRAPH: SLOPE LT -1.0 FOR LOW PERCENTAGES. XSAVE ( 5)= 0.368  
 HANDCHECK GRAPH: SLOPE LT -1.0 FOR LOW PERCENTAGES. XSAVE ( 6)= 0.745  
 HANDCHECK GRAPH: SLOPE LT -1.0 FOR LOW PERCENTAGES. XSAVE ( 7)= 1.202  
 HANDCHECK GRAPH: SLOPE LT -1.0 FOR LOW PERCENTAGES. XSAVE ( 8)= 1.677  
 HANDCHECK GRAPH: SLOPE LT -1.0 FOR LOW PERCENTAGES. XSAVE ( 9)= 2.463

K	I	XQSAVE(K, I)	XQINT(K, I)	XQSLOP(K, I)
16	1	-10.30702	-17.37546	-1.51014
16	2	-11.80957	-19.55764	-2.10221
16	3	-12.50272	-16.04223	-1.05470
16	4	-12.79371	-15.99922	-1.04073
16	5	-13.21027	-16.24014	-1.13064
16	6	-13.48731	-16.46181	-1.22168
16	7	-13.70502	-17.13152	-1.51846
16	8	-13.90386	-17.52852	-1.70523
16	9	-14.17558	NUMXQ(K)= 9	
		3.165E-06	0.068	1.000
		2.239E-06	0.204	3.000
		1.885E-06	0.340	5.000
		1.443E-06	0.679	10.000
		1.207E-06	1.019	15.000
		1.040E-06	1.358	20.000
		9.083E-07	1.698	25.000
		8.000E-07	2.037	30.000
		7.165E-07	2.377	35.000
		1.629E-06	0.5	7.36

ANNUAL AVERAGE = 2.13E-09

K= 16 FIVEXQ(K)= 1.629E-06 FIVEPR(K)= 7.363

FUMIGATION X/Q AT THE BOUNDARY: 1.07E-04

EXPONENTIAL TERM AND FREQUENCIES

4.773E-01	4.493E-01	4.286E-01	2.388E-01	2.312E-01	1.864E-01	5.166E-02
19.838	20.343	22.398	49.747	85.209	89.855	100.000

USNRC COMPUTER CODE-PAVAN, VERSION 2.0

RUN DATE: 03/14/07

PLANT NAME: Oyster Creek

METEOROLOGICAL INSTRUMENTATION

DATA PERIOD:

WIND SENSORS HEIGHT: 112 meters

TYPE OF RELEASE: Elevated Release

DELTA-T HEIGHTS: 10.1-115.8 meters

SOURCE OF DATA:

COMMENTS: Oyster Creek, Elevated Release, Stack, 1995-1999 met data

PROGRAM: PAVAN, 10/76, 8/79 REVISION, IMPLEMENTATION OF REGULATORY GUIDE 1.145

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

CLASS	METER/SEC	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	USED	
AT 112.0 METERS												
A	1.2	0.00	414.	0.	112.	84.5	88.5	0.0	0.000E+00	0.000E+00	1.541E-05	
A	2.0	0.01	414.	0.	112.	84.5	88.5	0.0	0.000E+00	0.000E+00	9.651E-06	
A	3.0	0.03	414.	0.	112.	84.5	88.5	0.0	0.000E+00	0.000E+00	6.429E-06	
A	4.0	0.05	414.	0.	112.	84.5	88.5	0.0	0.000E+00	0.000E+00	4.820E-06	
A	5.0	0.11	414.	0.	112.	84.5	88.5	0.0	0.000E+00	0.000E+00	3.859E-06	
A	5.9	0.18	414.	0.	112.	84.5	88.5	0.0	0.000E+00	0.000E+00	3.215E-06	
A	7.9	0.48	414.	0.	112.	84.5	88.5	0.0	0.000E+00	0.000E+00	2.410E-06	
A	9.9	0.41	414.	0.	112.	84.5	88.5	0.0	0.000E+00	0.000E+00	1.928E-06	
A	24.4	0.33	414.	0.	112.	84.5	88.5	0.0	0.000E+00	0.000E+00	7.844E-07	
CA= 957.SQ.METERS												
B	0.4	0.00	800.	0.	112.	115.2	86.0	0.0	0.000E+00	0.000E+00	3.340E-05	
B	2.0	0.01	800.	0.	112.	115.2	86.0	0.0	0.000E+00	0.000E+00	6.949E-06	
B	3.0	0.03	800.	0.	112.	115.2	86.0	0.0	0.000E+00	0.000E+00	4.629E-06	
B	4.0	0.12	800.	0.	112.	115.2	86.0	0.0	0.000E+00	0.000E+00	3.470E-06	
B	5.0	0.40	800.	0.	112.	115.2	86.0	0.0	0.000E+00	0.000E+00	2.778E-06	
B	5.9	0.61	800.	0.	112.	115.2	86.0	0.0	0.000E+00	0.000E+00	2.314E-06	
B	7.9	1.12	800.	0.	112.	115.2	86.0	0.0	0.000E+00	0.000E+00	1.735E-06	
B	9.9	0.68	800.	0.	112.	115.2	86.0	0.0	0.000E+00	0.000E+00	1.388E-06	
B	24.4	0.52	800.	0.	112.	115.2	86.0	0.0	0.000E+00	0.000E+00	5.647E-07	
C	0.5	0.00	1000.	0.	112.	107.0	61.1	0.0	0.000E+00	0.000E+00	1.828E-05	
C	0.7	0.00	1000.	0.	112.	107.0	61.1	0.0	0.000E+00	0.000E+00	1.219E-05	
C	2.0	0.04	1000.	0.	112.	107.0	61.1	0.0	0.000E+00	0.000E+00	4.581E-06	
C	3.0	0.12	1000.	0.	112.	107.0	61.1	0.0	0.000E+00	0.000E+00	3.052E-06	
C	4.0	0.51	1000.	0.	112.	107.0	61.1	0.0	0.000E+00	0.000E+00	2.288E-06	
C	5.0	0.97	1000.	0.	112.	107.0	61.1	0.0	0.000E+00	0.000E+00	1.832E-06	
C	5.9	1.17	1000.	0.	112.	107.0	61.1	0.0	0.000E+00	0.000E+00	1.526E-06	
C	7.9	1.74	1000.	0.	112.	107.0	61.1	0.0	0.000E+00	0.000E+00	1.144E-06	
C	9.9	0.95	1000.	0.	112.	107.0	61.1	0.0	0.000E+00	0.000E+00	9.154E-07	
C	24.4	0.81	1000.	0.	112.	107.0	61.1	0.0	0.000E+00	0.000E+00	3.723E-07	
D	0.4	0.04	3000.	0.	112.	203.1	65.4	0.0	0.000E+00	0.000E+00	1.343E-05	
D	0.5	0.00	3000.	0.	112.	203.1	65.4	0.0	0.000E+00	0.000E+00	1.115E-05	
D	0.7	0.05	3000.	0.	112.	203.1	65.4	0.0	0.000E+00	0.000E+00	7.433E-06	
D	1.0	0.12	3000.	0.	112.	203.1	65.4	0.0	0.000E+00	0.000E+00	5.575E-06	
D	1.2	0.16	3000.	0.	112.	203.1	65.4	0.0	0.000E+00	0.000E+00	4.460E-06	
D	1.5	0.25	3000.	0.	112.	203.1	65.4	0.0	0.000E+00	0.000E+00	3.717E-06	
D	2.0	0.63	3000.	0.	112.	203.1	65.4	0.0	0.000E+00	0.000E+00	2.794E-06	
D	3.0	2.54	3000.	0.	112.	203.1	65.4	0.0	0.000E+00	0.000E+00	1.861E-06	
D	4.0	4.47	3000.	0.	112.	203.1	65.4	0.0	0.000E+00	0.000E+00	1.395E-06	
D	5.0	5.44	3000.	0.	112.	203.1	65.4	0.0	0.000E+00	0.000E+00	1.117E-06	
D	5.9	5.63	3000.	0.	112.	203.1	65.4	0.0	0.000E+00	0.000E+00	9.305E-07	
D	7.9	9.04	3000.	0.	112.	203.1	65.4	0.0	0.000E+00	0.000E+00	6.976E-07	

D	9.9	6.18	3000.	0.	112.	203.1	65.4	0.0	0.000E+00	0.000E+00	5.582E-07
D	24.4	6.07	3000.	0.	112.	203.1	65.4	0.0	0.000E+00	0.000E+00	2.270E-07
E	0.4	0.03	7000.	0.	112.	310.5	66.2	0.0	0.000E+00	0.000E+00	9.048E-06
E	0.5	0.01	7000.	0.	112.	310.5	66.2	0.0	0.000E+00	0.000E+00	7.513E-06
E	0.7	0.04	7000.	0.	112.	310.5	66.2	0.0	0.000E+00	0.000E+00	5.009E-06
E	1.0	0.10	7000.	0.	112.	310.5	66.2	0.0	0.000E+00	0.000E+00	3.756E-06
E	1.2	0.08	7000.	0.	112.	310.5	66.2	0.0	0.000E+00	0.000E+00	3.005E-06
E	1.5	0.14	7000.	0.	112.	310.5	66.2	0.0	0.000E+00	0.000E+00	2.504E-06
E	2.0	0.32	7000.	0.	112.	310.5	66.2	0.0	0.000E+00	0.000E+00	1.882E-06
E	3.0	0.96	7000.	0.	112.	310.5	66.2	0.0	0.000E+00	0.000E+00	1.254E-06
E	3.9	1.48	7000.	0.	112.	310.5	66.2	0.0	0.000E+00	0.000E+00	9.402E-07
E	4.9	2.02	7000.	0.	112.	310.5	66.2	0.0	0.000E+00	0.000E+00	7.526E-07
E	5.9	2.70	7000.	0.	112.	310.5	66.2	0.0	0.000E+00	0.000E+00	6.270E-07
E	7.9	6.61	7000.	0.	112.	310.5	66.2	0.0	0.000E+00	0.000E+00	4.701E-07
E	9.8	7.07	7000.	0.	112.	310.5	66.2	0.0	0.000E+00	0.000E+00	3.761E-07
E	24.2	4.90	7000.	0.	112.	310.5	66.2	0.0	0.000E+00	0.000E+00	1.530E-07
F	0.4	0.02	90000.	0.	112.	1000.0	92.1	0.0	0.000E+00	0.000E+00	4.035E-06
F	0.5	0.01	90000.	0.	112.	1000.0	92.1	0.0	0.000E+00	0.000E+00	3.350E-06
F	0.7	0.03	90000.	0.	112.	1000.0	92.1	0.0	0.000E+00	0.000E+00	2.234E-06
F	1.0	0.04	90000.	0.	112.	1000.0	92.1	0.0	0.000E+00	0.000E+00	1.675E-06
F	1.2	0.05	90000.	0.	112.	1000.0	92.1	0.0	0.000E+00	0.000E+00	1.340E-06
F	1.5	0.07	90000.	0.	112.	1000.0	92.1	0.0	0.000E+00	0.000E+00	1.117E-06
F	2.0	0.13	90000.	0.	112.	1000.0	92.1	0.0	0.000E+00	0.000E+00	8.395E-07
F	3.0	0.55	90000.	0.	112.	1000.0	92.1	0.0	0.000E+00	0.000E+00	5.592E-07
F	3.9	0.76	90000.	0.	112.	1000.0	92.1	0.0	0.000E+00	0.000E+00	4.193E-07
F	4.9	0.98	90000.	0.	112.	1000.0	92.1	0.0	0.000E+00	0.000E+00	3.356E-07
F	5.9	1.19	90000.	0.	112.	1000.0	92.1	0.0	0.000E+00	0.000E+00	2.796E-07
F	7.9	2.80	90000.	0.	112.	1000.0	92.1	0.0	0.000E+00	0.000E+00	2.096E-07
F	9.8	3.28	90000.	0.	112.	1000.0	92.1	0.0	0.000E+00	0.000E+00	1.677E-07
F	24.2	2.46	90000.	0.	112.	1000.0	92.1	0.0	0.000E+00	0.000E+00	6.823E-08
G	0.4	0.05	90000.	0.	112.	1000.0	46.0	0.0	0.000E+00	0.000E+00	8.741E-07
G	0.5	0.01	90000.	0.	112.	1000.0	46.0	0.0	0.000E+00	0.000E+00	7.258E-07
G	0.7	0.02	90000.	0.	112.	1000.0	46.0	0.0	0.000E+00	0.000E+00	4.839E-07
G	1.0	0.07	90000.	0.	112.	1000.0	46.0	0.0	0.000E+00	0.000E+00	3.629E-07
G	1.2	0.08	90000.	0.	112.	1000.0	46.0	0.0	0.000E+00	0.000E+00	2.903E-07
G	1.5	0.10	90000.	0.	112.	1000.0	46.0	0.0	0.000E+00	0.000E+00	2.419E-07
G	2.0	0.24	90000.	0.	112.	1000.0	46.0	0.0	0.000E+00	0.000E+00	1.819E-07
G	3.0	0.80	90000.	0.	112.	1000.0	46.0	0.0	0.000E+00	0.000E+00	1.211E-07
G	3.9	0.99	90000.	0.	112.	1000.0	46.0	0.0	0.000E+00	0.000E+00	9.083E-08
G	4.9	1.18	90000.	0.	112.	1000.0	46.0	0.0	0.000E+00	0.000E+00	7.271E-08
G	5.9	1.23	90000.	0.	112.	1000.0	46.0	0.0	0.000E+00	0.000E+00	6.057E-08
G	7.9	2.10	90000.	0.	112.	1000.0	46.0	0.0	0.000E+00	0.000E+00	4.541E-08
G	9.8	1.46	90000.	0.	112.	1000.0	46.0	0.0	0.000E+00	0.000E+00	3.634E-08
G	24.2	0.79	90000.	0.	112.	1000.0	46.0	0.0	0.000E+00	0.000E+00	1.478E-08

USNRC COMPUTER CODE-PAVAN, VERSION 2.0

RUN DATE: 03/14/07

PLANT NAME: Oyster Creek

METEOROLOGICAL INSTRUMENTATION

DATA PERIOD:

WIND SENSORS HEIGHT: 112 meters

TYPE OF RELEASE: Elevated Release

DELTA-T HEIGHTS: 10.1-115.8 meters

SOURCE OF DATA:

COMMENTS: Oyster Creek, Elevated Release, Stack, 1995-1999 met data

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 = 414.0 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.

3.340E-05	1.828E-05	1.541E-05	1.343E-05	1.219E-05	1.115E-05	9.651E-06	9.048E-06	7.513E-06	7.433E-06
0.002	0.005	0.007	0.048	0.050	0.055	0.062	0.087	0.096	0.149
0.00229	0.00457	0.00686	0.04801	0.05029	0.05486	0.06172	0.08687	0.09601	0.14859
6.949E-06	6.429E-06	5.575E-06	5.009E-06	4.820E-06	4.629E-06	4.581E-06	4.460E-06	4.035E-06	3.859E-06
0.155	0.187	0.306	0.345	0.398	0.432	0.469	0.626	0.647	0.759
0.15545	0.18745	0.30632	0.34518	0.39776	0.43205	0.46863	0.62636	0.64693	0.75894
3.756E-06	3.717E-06	3.470E-06	3.350E-06	3.215E-06	3.052E-06	3.005E-06	2.794E-06	2.778E-06	2.504E-06
0.862	1.116	1.234	1.244	1.420	1.538	1.618	2.247	2.647	2.784
0.86181	1.11556	1.23443	1.24357	1.41959	1.53846	1.61847	2.24711	2.64716	2.78432
2.410E-06	2.314E-06	2.288E-06	2.234E-06	1.928E-06	1.882E-06	1.861E-06	1.832E-06	1.735E-06	1.675E-06
3.269	3.879	4.389	4.416	4.823	5.146	7.685	8.657	9.779	9.816
3.26895	3.87930	4.38907	4.41650	4.82341	5.14573	7.68545	8.65699	9.77940	9.81598
1.526E-06	1.395E-06	1.388E-06	1.340E-06	1.254E-06	1.144E-06	1.117E-06	1.117E-06	9.402E-07	9.305E-07
10.989	15.460	16.141	16.196	17.159	18.894	24.336	24.407	25.891	31.524
10.98868	15.46005	16.14127	16.19614	17.15853	18.89359	24.33650	24.40736	25.89096	31.52360
9.154E-07	8.741E-07	8.395E-07	7.844E-07	7.526E-07	7.258E-07	6.976E-07	6.270E-07	5.647E-07	5.592E-07
32.477	32.525	32.655	32.984	35.007	35.017	44.055	46.750	47.269	47.818
32.47685	32.52486	32.65516	32.98434	35.00742	35.01657	44.05532	46.75048	47.26940	47.81803
5.582E-07	4.839E-07	4.701E-07	4.193E-07	3.761E-07	3.723E-07	3.629E-07	3.356E-07	2.903E-07	2.796E-07
53.997	54.015	60.626	61.387	68.460	69.274	69.345	70.328	70.403	71.597
53.99702	54.01531	60.62635	61.38758	68.46039	69.27419	69.34505	70.32803	70.40347	71.59675
2.419E-07	2.270E-07	2.096E-07	1.819E-07	1.677E-07	1.530E-07	1.211E-07	9.083E-08	7.271E-08	6.823E-08
71.695	77.764	80.567	80.811	84.089	88.991	89.788	90.776	91.953	94.415
71.69505	77.76431	80.56692	80.81152	84.08961	88.99074	89.78854	90.77608	91.95337	94.41536
6.057E-08	4.541E-08	3.634E-08	1.478E-08						
95.647	97.750	99.209	100.000						
95.64750	97.75060	99.20905	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 = 3.340E-05      DISTANCE = 800.000

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)= 0.048  
 HANDCHECK GRAPH: SLOPE LT -1.0 FOR LOW PERCENTAGES. XSAVE ( 3)= 0.306

3.856E-06	1.000	1.000
2.670E-06	3.000	3.000
2.249E-06	5.000	5.000
1.725E-06	10.000	10.000
1.439E-06	15.000	15.000
1.246E-06	20.000	20.000
2.249E-06	5.0	5.00

K= 17      FIVEXQ(K)= 2.249E-06      FIVEPR(K)= 5.000

FUMIGATION X/Q AT THE BOUNDARY: 1.07E-04

EXPONENTIAL TERM AND FREQUENCIES

4.773E-01	4.493E-01	4.286E-01	2.388E-01	2.312E-01	1.864E-01	5.166E-02
12.379	13.981	17.476	43.941	84.572	90.888	100.000

USNRC COMPUTER CODE-PAVAN, VERSION 2.0

RUN DATE: 03/14/07

PLANT NAME: Oyster Creek

METEOROLOGICAL INSTRUMENTATION

DATA PERIOD:

WIND SENSORS HEIGHT: 112 meters

TYPE OF RELEASE: Elevated Release

DELTA-T HEIGHTS: 10.1-115.8 meters

SOURCE OF DATA:

COMMENTS: Oyster Creek, Elevated Release, Stack, 1995-1999 met data

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.

3.340E-05	1.828E-05	1.541E-05	1.343E-05	1.219E-05	1.115E-05	9.651E-06	9.048E-06	7.513E-06	7.433E-06
0.002	0.005	0.007	0.048	0.050	0.055	0.062	0.087	0.096	0.149
0.00229	0.00457	0.00686	0.04801	0.05029	0.05486	0.06172	0.08687	0.09601	0.14859
6.949E-06	6.429E-06	5.575E-06	5.009E-06	4.820E-06	4.629E-06	4.581E-06	4.460E-06	4.035E-06	3.859E-06
0.155	0.187	0.306	0.345	0.398	0.432	0.469	0.626	0.647	0.759
0.15545	0.18745	0.30632	0.34518	0.39776	0.43205	0.46863	0.62636	0.64693	0.75894
3.756E-06	3.717E-06	3.470E-06	3.350E-06	3.215E-06	3.052E-06	3.005E-06	2.794E-06	2.778E-06	2.504E-06
0.862	1.116	1.234	1.244	1.420	1.538	1.618	2.247	2.647	2.784
0.86181	1.11556	1.23443	1.24357	1.41959	1.53846	1.61847	2.24711	2.64716	2.78432
2.410E-06	2.314E-06	2.288E-06	2.234E-06	1.928E-06	1.882E-06	1.861E-06	1.832E-06	1.735E-06	1.675E-06
3.269	3.879	4.389	4.416	4.823	5.146	7.685	8.657	9.779	9.816
3.26894	3.87930	4.38907	4.41650	4.82341	5.14573	7.68545	8.65698	9.77940	9.81597
1.526E-06	1.395E-06	1.388E-06	1.340E-06	1.254E-06	1.144E-06	1.117E-06	1.117E-06	9.402E-07	9.305E-07
10.989	15.460	16.141	16.196	17.159	18.894	24.336	24.407	25.891	31.524
10.98868	15.46005	16.14127	16.19614	17.15854	18.89359	24.33650	24.40737	25.89096	31.52361
9.154E-07	8.741E-07	8.395E-07	7.844E-07	7.526E-07	7.258E-07	6.976E-07	6.270E-07	5.647E-07	5.592E-07
32.477	32.525	32.655	32.984	35.007	35.017	44.055	46.750	47.269	47.818
32.47686	32.52486	32.65517	32.98435	35.00743	35.01657	44.05531	46.75048	47.26941	47.81804
5.582E-07	4.839E-07	4.701E-07	4.193E-07	3.761E-07	3.723E-07	3.629E-07	3.356E-07	2.903E-07	2.796E-07
53.997	54.015	60.626	61.387	68.460	69.274	69.345	70.328	70.403	71.597
53.99703	54.01532	60.62635	61.38759	68.46040	69.27422	69.34509	70.32806	70.40351	71.59679
2.419E-07	2.270E-07	2.096E-07	1.819E-07	1.677E-07	1.530E-07	1.211E-07	9.083E-08	7.271E-08	6.823E-08
71.695	77.764	80.567	80.811	84.090	88.991	89.788	90.776	91.953	94.415
71.69509	77.76436	80.56696	80.81158	84.08968	88.99082	89.78864	90.77618	91.95347	94.41547
6.057E-08	4.541E-08	3.634E-08	1.478E-08						
95.647	97.751	99.209	100.000						
95.64761	97.75071	99.20915	100.00010						

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 = 3.340E-05      DISTANCE = 800.000

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( 84)= 100.00010  
 HANDCHECK GRAPH: SLOPE LT -1.0 FOR LOW PERCENTAGES. XSAVE( 2)= 0.048  
 HANDCHECK GRAPH: SLOPE LT -1.0 FOR LOW PERCENTAGES. XSAVE( 3)= 0.306

K	I	XQSAVE(K, I)	XQINT(K, I)	XQSLOP(K, I)
18	1	-10.30702	-15.10418	-1.17678
18	2	-11.21821	-16.39362	-1.56726
18	3	-12.09726	-14.53561	-0.88948
18	4	-12.50272	-14.40474	-0.83222
18	5	-12.79371	-14.20001	-0.72646
18	6	-13.21027	-14.22006	-0.74118
18	7	-13.48731	-14.21529	-0.73635
18	8	-13.70502	NUMXQ(K)= 8	
		3.856E-06	1.000	1.000
		2.670E-06	3.000	3.000
		2.249E-06	5.000	5.000
		1.725E-06	10.000	10.000
		1.439E-06	15.000	15.000
		1.246E-06	20.000	20.000
		2.249E-06	5.0	5.00

K= 18      FIVEXQ(K)= 2.249E-06      FIVEPR(K)= 5.000

K	HIGHPR	PR	GRNDVT(K)
1	-2.78844	0.26482	4.29369
2	-1.61818	5.28116	3.37391
3	-2.73886	0.30827	6.16855
4	-2.60971	0.45310	5.18429
5	-2.63346	0.42261	3.71588
6	-2.58929	0.48087	3.33050
7	-2.57624	0.49942	3.81943
8	-2.75508	0.29339	4.27679
9	-2.81506	0.24385	6.52016
10	-2.83344	0.23025	8.46418
11	-2.79134	0.26246	6.89637
12	-2.78738	0.26569	7.00124
13	-2.74271	0.30468	8.11998
14	-2.72637	0.32018	11.30449
15	-2.67115	0.37796	10.73959
16	-2.85834	0.21294	6.79093

K	HOURS (K)	TOTHR
1	23.19853	23.19853
2	462.62930	485.82780
3	27.00439	512.83220
4	39.69127	552.52350
5	37.02053	589.54400
6	42.12390	631.66790
7	43.74879	675.41670
8	25.70113	701.11780
9	21.36113	722.47890
10	20.17014	742.64910
11	22.99125	765.64040
12	23.27424	788.91460
13	26.69006	815.60470
14	28.04762	843.65230
15	33.10973	876.76200
16	18.65333	895.41530

K	FIVEXQ	SVANN	SLTIME	TIMINT	I	TIME	XQT
1	1.629E-06	1.086E-09	-0.8722	-12.7228			
					1	8.0	-14.53655
					2	16.0	-15.14112
					3	72.0	-16.45300
					4	624.0	-18.33652
2	1.657E-06	9.869E-10	-0.8856	-12.6969			
					1	8.0	-14.53844
					2	16.0	-15.15228
					3	72.0	-16.48428
					4	624.0	-18.39670
3	1.890E-06	5.204E-09	-0.7031	-12.6914			
					1	8.0	-14.15338
					2	16.0	-14.64070
					3	72.0	-15.69815
					4	624.0	-17.21640
4	2.123E-06	6.050E-09	-0.6990	-12.5780			
					1	8.0	-14.03144
					2	16.0	-14.51592
					3	72.0	-15.56720
					4	624.0	-17.07659
5	2.080E-06	3.263E-09	-0.7701	-12.5495			
					1	8.0	-14.15088
					2	16.0	-14.68466
					3	72.0	-15.84294
					4	624.0	-17.50594
6	2.175E-06	4.032E-09	-0.7502	-12.5187			
					1	8.0	-14.07864
					2	16.0	-14.59864
					3	72.0	-15.72699
					4	624.0	-17.34702
7	2.206E-06	4.575E-09	-0.7368	-12.5137			
					1	8.0	-14.04589
					2	16.0	-14.55661
					3	72.0	-15.66483
					4	624.0	-17.25595
8	1.838E-06	4.129E-09	-0.7273	-12.7028			
					1	8.0	-14.21515
					2	16.0	-14.71927



				3	72.0	-15.81316
				4	624.0	-17.38373
9	1.769E-06	4.669E-09	-0.7081	-12.7543		
				1	8.0	-14.22668
				2	16.0	-14.71749
				3	72.0	-15.78249
				4	624.0	-17.31158
10	1.662E-06	3.790E-09	-0.7255	-12.8044		
				1	8.0	-14.31311
				2	16.0	-14.81602
				3	72.0	-15.90730
				4	624.0	-17.47410
11	1.639E-06	3.530E-09	-0.7323	-12.8141		
				1	8.0	-14.33682
				2	16.0	-14.84440
				3	72.0	-15.94582
				4	624.0	-17.52719
12	1.734E-06	4.197E-09	-0.7184	-12.7673		
				1	8.0	-14.26112
				2	16.0	-14.75907
				3	72.0	-15.83958
				4	624.0	-17.39092
13	1.885E-06	6.084E-09	-0.6841	-12.7076		
				1	8.0	-14.13007
				2	16.0	-14.60423
				3	72.0	-15.63311
				4	624.0	-17.11035
14	1.950E-06	1.101E-08	-0.6175	-12.7194		
				1	8.0	-14.00342
				2	16.0	-14.43141
				3	72.0	-15.36012
				4	624.0	-16.69352
15	2.034E-06	1.010E-08	-0.6327	-12.6667		
				1	8.0	-13.98245
				2	16.0	-14.42103
				3	72.0	-15.37271
				4	624.0	-16.73908
16	1.629E-06	2.127E-09	-0.7920	-12.7784		
				1	8.0	-14.42536
				2	16.0	-14.97436
				3	72.0	-16.16564
				4	624.0	-17.87604
17	2.249E-06	1.101E-08	-0.6345	-12.5650		
				1	8.0	-13.88439
				2	16.0	-14.32417
				3	72.0	-15.27846
				4	624.0	-16.64858
18	2.249E-06	1.101E-08	-0.6345	-12.5650		
				1	8.0	-13.88438
				2	16.0	-14.32416
				3	72.0	-15.27845
				4	624.0	-16.64858

USNRC COMPUTER CODE-PAVAN, VERSION 2.0

RUN DATE: 03/14/07

PLANT NAME: Oyster Creek

METEOROLOGICAL INSTRUMENTATION

DATA PERIOD:

WIND SENSORS HEIGHT: 112 meters

TYPE OF RELEASE: Elevated Release

DELTA-T HEIGHTS: 10.1-115.8 meters

SOURCE OF DATA:

COMMENTS: Oyster Creek, Elevated Release, Stack, 1995-1999 met data

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 DISTANCE SECTOR (METERS)	HOURS PER YEAR MAX 0-2 HR X/Q IS EXCEEDED							DOWNWIND SECTOR
	0-2 HOURS	0-8 HOURS	8-24 HOURS	1-4 DAYS	4-30 DAYS	ANNUAL AVERAGE	IN SECTOR	
S 414.	1.63E-06	4.86E-07	2.66E-07	7.15E-08	1.09E-08	1.09E-09	23.2	S
SSW 414.	1.66E-06	4.85E-07	2.63E-07	6.93E-08	1.02E-08	9.87E-10	462.6	SSW
SW 414.	1.89E-06	7.13E-07	4.38E-07	1.52E-07	3.33E-08	5.20E-09	27.0	SW
WSW 414.	2.12E-06	8.06E-07	4.96E-07	1.73E-07	3.83E-08	6.05E-09	39.7	WSW
W 414.	2.08E-06	7.15E-07	4.19E-07	1.32E-07	2.50E-08	3.26E-09	37.0	W
WNW 414.	2.17E-06	7.69E-07	4.57E-07	1.48E-07	2.93E-08	4.03E-09	42.1	WNW
NW 414.	2.21E-06	7.94E-07	4.77E-07	1.57E-07	3.21E-08	4.58E-09	43.7	NW
NNW 414.	1.84E-06	6.71E-07	4.05E-07	1.36E-07	2.82E-08	4.13E-09	25.7	NNW
N 414.	1.77E-06	6.63E-07	4.06E-07	1.40E-07	3.03E-08	4.67E-09	21.4	N
NNE 414.	1.66E-06	6.08E-07	3.68E-07	1.23E-07	2.58E-08	3.79E-09	20.2	NNE
NE 414.	1.64E-06	5.94E-07	3.57E-07	1.19E-07	2.44E-08	3.53E-09	23.0	NE
ENE 414.	1.73E-06	6.40E-07	3.89E-07	1.32E-07	2.80E-08	4.20E-09	23.3	ENE
E 414.	1.88E-06	7.30E-07	4.54E-07	1.62E-07	3.71E-08	6.08E-09	26.7	E
ESE 414.	1.95E-06	8.29E-07	5.40E-07	2.13E-07	5.62E-08	1.10E-08	28.0	ESE
SE 414.	2.03E-06	8.46E-07	5.46E-07	2.11E-07	5.37E-08	1.01E-08	33.1	SE
SSE 414.	1.63E-06	5.43E-07	3.14E-07	9.54E-08	1.72E-08	2.13E-09	18.7	SSE
MAX X/Q	2.21E-06					TOTAL HOURS AROUND SITE:	895.4	
SRP 2.3.4 414.	2.25E-06	9.33E-07	6.01E-07	2.32E-07	5.88E-08	1.10E-08		
SITE LIMIT	2.25E-06	9.33E-07	6.01E-07	2.32E-07	5.88E-08	1.10E-08		

THE FIVE-PERCENT-FOR-THE-ENTIRE-SITE X/Q IS LIMITING.

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

DOWNWIND DISTANCE FUMIGATION SECTOR (METERS)	X/Q
S 414.	1.07E-04
SSW 414.	1.07E-04
SW 414.	1.07E-04
WSW 414.	1.07E-04
W 414.	1.07E-04
WNW 414.	1.07E-04
NW 414.	1.07E-04
NNW 414.	1.07E-04
N 414.	1.07E-04
NNE 414.	1.07E-04
NE 414.	1.07E-04
ENE 414.	1.07E-04
E 414.	1.07E-04
ESE 414.	1.07E-04
SE 414.	1.07E-04
SSE 414.	1.07E-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.

USNRC COMPUTER CODE-PAVAN, VERSION 2.0

RUN DATE: 03/14/07

PLANT NAME: Oyster Creek

METEOROLOGICAL INSTRUMENTATION

DATA PERIOD:

WIND SENSORS HEIGHT: 112 meters

TYPE OF RELEASE: Elevated Release

DELTA-T HEIGHTS: 10.1-115.8 meters

SOURCE OF DATA:

COMMENTS: Oyster Creek, Elevated Release, Stack, 1995-1999 met data

PROGRAM: PAVAN, 10/76, 8/79 REVISION, IMPLEMENTATION OF REGULATORY GUIDE 1.145

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

CLASS	METER/SEC	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	USED
AT 112.0 METERS											
A	3.0	0.05	3218.	0.	112.	538.2	1000.0	0.0	0.000E+00	0.000E+00	1.976E-07
A	4.0	0.05	3218.	0.	112.	538.2	1000.0	0.0	0.000E+00	0.000E+00	1.481E-07
A	5.0	0.05	3218.	0.	112.	538.2	1000.0	0.0	0.000E+00	0.000E+00	1.186E-07
A	7.9	0.11	3218.	0.	112.	538.2	1000.0	0.0	0.000E+00	0.000E+00	7.406E-08
B	0.4	0.00	3218.	0.	112.	404.8	392.6	0.0	0.000E+00	0.000E+00	4.665E-06
B	3.0	0.05	3218.	0.	112.	404.8	392.6	0.0	0.000E+00	0.000E+00	6.466E-07
B	4.0	0.27	3218.	0.	112.	404.8	392.6	0.0	0.000E+00	0.000E+00	4.848E-07
B	5.0	0.16	3218.	0.	112.	404.8	392.6	0.0	0.000E+00	0.000E+00	3.881E-07
B	5.9	0.37	3218.	0.	112.	404.8	392.6	0.0	0.000E+00	0.000E+00	3.233E-07
B	7.9	0.27	3218.	0.	112.	404.8	392.6	0.0	0.000E+00	0.000E+00	2.424E-07
B	9.9	0.11	3218.	0.	112.	404.8	392.6	0.0	0.000E+00	0.000E+00	1.939E-07
C	3.0	0.21	3218.	0.	112.	307.4	177.2	0.0	0.000E+00	0.000E+00	1.609E-06
C	4.0	0.53	3218.	0.	112.	307.4	177.2	0.0	0.000E+00	0.000E+00	1.206E-06
C	5.0	0.27	3218.	0.	112.	307.4	177.2	0.0	0.000E+00	0.000E+00	9.656E-07
C	5.9	0.64	3218.	0.	112.	307.4	177.2	0.0	0.000E+00	0.000E+00	8.045E-07
C	7.9	0.48	3218.	0.	112.	307.4	177.2	0.0	0.000E+00	0.000E+00	6.031E-07
C	9.9	0.05	3218.	0.	112.	307.4	177.2	0.0	0.000E+00	0.000E+00	4.826E-07
C	24.4	0.05	3218.	0.	112.	307.4	177.2	0.0	0.000E+00	0.000E+00	1.963E-07
D	0.4	0.09	3218.	0.	112.	216.4	68.3	0.0	0.000E+00	0.000E+00	1.363E-05
D	0.7	0.05	3218.	0.	112.	216.4	68.3	0.0	0.000E+00	0.000E+00	7.543E-06
D	1.0	0.27	3218.	0.	112.	216.4	68.3	0.0	0.000E+00	0.000E+00	5.657E-06
D	1.2	0.37	3218.	0.	112.	216.4	68.3	0.0	0.000E+00	0.000E+00	4.526E-06
D	1.5	0.32	3218.	0.	112.	216.4	68.3	0.0	0.000E+00	0.000E+00	3.772E-06
D	2.0	0.91	3218.	0.	112.	216.4	68.3	0.0	0.000E+00	0.000E+00	2.835E-06
D	3.0	3.94	3218.	0.	112.	216.4	68.3	0.0	0.000E+00	0.000E+00	1.889E-06
D	4.0	5.27	3218.	0.	112.	216.4	68.3	0.0	0.000E+00	0.000E+00	1.416E-06
D	5.0	6.12	3218.	0.	112.	216.4	68.3	0.0	0.000E+00	0.000E+00	1.134E-06
D	5.9	5.86	3218.	0.	112.	216.4	68.3	0.0	0.000E+00	0.000E+00	9.443E-07
D	7.9	8.25	3218.	0.	112.	216.4	68.3	0.0	0.000E+00	0.000E+00	7.080E-07
D	9.9	3.46	3218.	0.	112.	216.4	68.3	0.0	0.000E+00	0.000E+00	5.665E-07
D	24.4	1.01	3218.	0.	112.	216.4	68.3	0.0	0.000E+00	0.000E+00	2.304E-07
E	0.4	0.07	7000.	0.	112.	310.5	66.2	0.0	0.000E+00	0.000E+00	9.048E-06
E	0.7	0.11	7000.	0.	112.	310.5	66.2	0.0	0.000E+00	0.000E+00	5.009E-06
E	1.0	0.16	7000.	0.	112.	310.5	66.2	0.0	0.000E+00	0.000E+00	3.756E-06
E	1.2	0.37	7000.	0.	112.	310.5	66.2	0.0	0.000E+00	0.000E+00	3.005E-06
E	1.5	0.11	7000.	0.	112.	310.5	66.2	0.0	0.000E+00	0.000E+00	2.504E-06
E	2.0	0.37	7000.	0.	112.	310.5	66.2	0.0	0.000E+00	0.000E+00	1.882E-06
E	3.0	0.96	7000.	0.	112.	310.5	66.2	0.0	0.000E+00	0.000E+00	1.254E-06
E	3.9	2.13	7000.	0.	112.	310.5	66.2	0.0	0.000E+00	0.000E+00	9.402E-07

E	4.9	2.40	7000.	0.	112.	310.5	66.2	0.0	0.000E+00	0.000E+00	7.526E-07
E	5.9	4.31	7000.	0.	112.	310.5	66.2	0.0	0.000E+00	0.000E+00	6.270E-07
E	7.9	8.73	7000.	0.	112.	310.5	66.2	0.0	0.000E+00	0.000E+00	4.701E-07
E	9.8	3.73	7000.	0.	112.	310.5	66.2	0.0	0.000E+00	0.000E+00	3.761E-07
E	24.2	0.96	7000.	0.	112.	310.5	66.2	0.0	0.000E+00	0.000E+00	1.530E-07
F	0.4	0.03	90000.	0.	112.	1000.0	92.1	0.0	0.000E+00	0.000E+00	4.035E-06
F	1.0	0.05	90000.	0.	112.	1000.0	92.1	0.0	0.000E+00	0.000E+00	1.675E-06
F	1.2	0.16	90000.	0.	112.	1000.0	92.1	0.0	0.000E+00	0.000E+00	1.340E-06
F	2.0	0.16	90000.	0.	112.	1000.0	92.1	0.0	0.000E+00	0.000E+00	8.395E-07
F	3.0	0.80	90000.	0.	112.	1000.0	92.1	0.0	0.000E+00	0.000E+00	5.592E-07
F	3.9	1.01	90000.	0.	112.	1000.0	92.1	0.0	0.000E+00	0.000E+00	4.193E-07
F	4.9	1.49	90000.	0.	112.	1000.0	92.1	0.0	0.000E+00	0.000E+00	3.356E-07
F	5.9	2.50	90000.	0.	112.	1000.0	92.1	0.0	0.000E+00	0.000E+00	2.796E-07
F	7.9	6.87	90000.	0.	112.	1000.0	92.1	0.0	0.000E+00	0.000E+00	2.096E-07
F	9.8	4.47	90000.	0.	112.	1000.0	92.1	0.0	0.000E+00	0.000E+00	1.677E-07
F	24.2	1.12	90000.	0.	112.	1000.0	92.1	0.0	0.000E+00	0.000E+00	6.823E-08
G	0.4	0.09	90000.	0.	112.	1000.0	46.0	0.0	0.000E+00	0.000E+00	8.741E-07
G	1.0	0.16	90000.	0.	112.	1000.0	46.0	0.0	0.000E+00	0.000E+00	3.629E-07
G	1.2	0.16	90000.	0.	112.	1000.0	46.0	0.0	0.000E+00	0.000E+00	2.903E-07
G	1.5	0.16	90000.	0.	112.	1000.0	46.0	0.0	0.000E+00	0.000E+00	2.419E-07
G	2.0	0.48	90000.	0.	112.	1000.0	46.0	0.0	0.000E+00	0.000E+00	1.819E-07
G	3.0	1.49	90000.	0.	112.	1000.0	46.0	0.0	0.000E+00	0.000E+00	1.211E-07
G	3.9	1.54	90000.	0.	112.	1000.0	46.0	0.0	0.000E+00	0.000E+00	9.083E-08
G	4.9	1.97	90000.	0.	112.	1000.0	46.0	0.0	0.000E+00	0.000E+00	7.271E-08
G	5.9	2.61	90000.	0.	112.	1000.0	46.0	0.0	0.000E+00	0.000E+00	6.057E-08
G	7.9	4.95	90000.	0.	112.	1000.0	46.0	0.0	0.000E+00	0.000E+00	4.541E-08
G	9.8	3.19	90000.	0.	112.	1000.0	46.0	0.0	0.000E+00	0.000E+00	3.634E-08
G	24.2	0.48	90000.	0.	112.	1000.0	46.0	0.0	0.000E+00	0.000E+00	1.478E-08

USNRC COMPUTER CODE-PAVAN, VERSION 2.0

RUN DATE: 03/14/07

PLANT NAME: Oyster Creek  
 DATA PERIOD:  
 TYPE OF RELEASE: Elevated Release  
 SOURCE OF DATA:  
 COMMENTS: Oyster Creek, Elevated Release, Stack, 1995-1999 met data  
 PROGRAM: PAVAN, 10/76, 8/79 REVISION, IMPLEMENTATION OF REGULATORY GUIDE 1.145

METEOROLOGICAL INSTRUMENTATION  
 WIND SENSORS HEIGHT: 112 meters  
 DELTA-T HEIGHTS: 10.1-115.8 meters

LOW POPULATION ZONE CALCULATIONS:

S SECTOR BOUNDARY DISTANCE = 3218.0 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.

1.363E-05	9.048E-06	7.543E-06	5.657E-06	5.009E-06	4.665E-06	4.526E-06	4.035E-06	3.772E-06	3.756E-06
0.085	0.155	0.208	0.474	0.581	0.584	0.957	0.991	1.311	1.470
0.00366	0.00665	0.00894	0.02037	0.02494	0.02508	0.04108	0.04255	0.05627	0.06313
3.005E-06	2.835E-06	2.504E-06	1.889E-06	1.882E-06	1.675E-06	1.609E-06	1.416E-06	1.340E-06	1.254E-06
1.843	2.748	2.854	6.794	7.167	7.220	7.433	12.704	12.864	13.822
0.07913	0.11799	0.12256	0.29172	0.30773	0.31001	0.31916	0.54547	0.55233	0.59347
1.206E-06	1.134E-06	9.656E-07	9.443E-07	9.402E-07	8.741E-07	8.395E-07	8.045E-07	7.526E-07	7.080E-07
14.354	20.477	20.743	26.600	28.729	28.818	28.977	29.616	32.012	40.264
0.61633	0.87922	0.89065	1.14211	1.23355	1.23734	1.24419	1.27163	1.37450	1.72882
6.466E-07	6.270E-07	6.031E-07	5.665E-07	5.592E-07	4.848E-07	4.826E-07	4.701E-07	4.193E-07	3.881E-07
40.318	44.630	45.109	48.570	49.368	49.635	49.688	58.419	59.431	59.591
1.73111	1.91627	1.93685	2.08543	2.11972	2.13115	2.13344	2.50834	2.55177	2.55863
3.761E-07	3.629E-07	3.356E-07	3.233E-07	2.903E-07	2.796E-07	2.424E-07	2.419E-07	2.304E-07	2.096E-07
63.317	63.477	64.968	65.340	65.500	68.003	68.269	68.428	69.440	76.308
2.71865	2.72551	2.78951	2.80552	2.81237	2.91981	2.93124	2.93810	2.98154	3.27643
1.976E-07	1.963E-07	1.939E-07	1.819E-07	1.677E-07	1.530E-07	1.481E-07	1.211E-07	1.186E-07	9.083E-08
76.361	76.414	76.521	77.000	81.472	82.431	82.484	83.975	84.028	85.572
3.27871	3.28100	3.28557	3.30614	3.49817	3.53931	3.54160	3.60561	3.60789	3.67419
7.406E-08	7.271E-08	6.823E-08	6.057E-08	4.541E-08	3.634E-08	1.478E-08			
85.678	87.648	88.766	91.375	96.326	99.521	100.000			
3.67876	3.76334	3.81134	3.92336	4.13595	4.27311	4.29369			

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 = 3.340E-05 DISTANCE = 800.000

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)= 0.063  
 HANDCHECK GRAPH: SLOPE LT -1.0 FOR LOW PERCENTAGES. XSAVE ( 3)= 0.307  
 HANDCHECK GRAPH: SLOPE LT -1.0 FOR LOW PERCENTAGES. XSAVE ( 4)= 0.878  
 HANDCHECK GRAPH: SLOPE LT -1.0 FOR LOW PERCENTAGES. XSAVE ( 5)= 1.232  
 HANDCHECK GRAPH: SLOPE LT -1.0 FOR LOW PERCENTAGES. XSAVE ( 6)= 1.727  
 HANDCHECK GRAPH: SLOPE LT -1.0 FOR LOW PERCENTAGES. XSAVE ( 7)= 2.506  
 HANDCHECK GRAPH: SLOPE LT -1.0 FOR LOW PERCENTAGES. XSAVE ( 8)= 2.716

K	I	XQSAVE(K, I)	XQINT(K, I)	XQSLOP(K, I)
1	1	-11.20349	-18.10080	-1.73936
1	2	-12.49203	-17.08755	-1.42514
1	3	-13.18295	-16.98924	-1.38926
1	4	-13.69019	-17.16716	-1.46418
1	5	-13.87721	-18.66107	-2.12904
1	6	-14.16087	-19.75385	-2.64603
1	7	-14.57036	-27.15870	-6.42600
1	8	-14.79328	NUMXQ(K)= 8	
		4.539E-06	0.043	1.000
		2.785E-06	0.129	3.000
		2.222E-06	0.215	5.000
		1.613E-06	0.429	10.000
		1.326E-06	0.644	15.000
		1.147E-06	0.859	20.000
		1.016E-06	1.073	25.000
		9.073E-07	1.288	30.000
		7.977E-07	1.503	35.000
		7.120E-07	1.717	40.000
		6.280E-07	1.932	45.000
		5.595E-07	2.147	50.000
		5.031E-07	2.362	55.000
		4.367E-07	2.576	60.000
		1.500E-06	0.5	11.65

ANNUAL AVERAGE = 1.17E-08

K= 1 FIVEXQ(K)= 1.500E-06 FIVEPR(K)=11.645

FUMIGATION X/Q AT THE BOUNDARY: 1.68E-05

EXPONENTIAL TERM AND FREQUENCIES

9.937E-01	9.601E-01	8.190E-01	4.773E-01	2.610E-01	2.388E-01	5.166E-02
0.266	1.494	3.730	22.399	58.315	82.715	100.000

USNRC COMPUTER CODE-PAVAN, VERSION 2.0

RUN DATE: 03/14/07

PLANT NAME: Oyster Creek

METEOROLOGICAL INSTRUMENTATION

DATA PERIOD:

WIND SENSORS HEIGHT: 112 meters

TYPE OF RELEASE: Elevated Release

DELTA-T HEIGHTS: 10.1-115.8 meters

SOURCE OF DATA:

COMMENTS: Oyster Creek, Elevated Release, Stack, 1995-1999 met data

PROGRAM: PAVAN, 10/76, 8/79 REVISION, IMPLEMENTATION OF REGULATORY GUIDE 1.145

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

CLASS	METER/SEC	PERCENT	METERS	METERS	METERS	SIGMA-Y METERS	SIGMA-Z METERS	MEANDER-SY METERS	** CHI/Q VALUES (SEC/CUBIC METER)		
									MEANDER	BLDG WAKE	USED
AT 112.0 METERS									CA= 957.SQ.METERS		
A	4.0	0.07	3218.	0.	112.	538.2	1000.0	0.0	0.000E+00	0.000E+00	1.481E-07
A	5.0	0.07	3218.	0.	112.	538.2	1000.0	0.0	0.000E+00	0.000E+00	1.186E-07
A	5.9	0.14	3218.	0.	112.	538.2	1000.0	0.0	0.000E+00	0.000E+00	9.879E-08
A	7.9	0.20	3218.	0.	112.	538.2	1000.0	0.0	0.000E+00	0.000E+00	7.406E-08
A	9.9	0.07	3218.	0.	112.	538.2	1000.0	0.0	0.000E+00	0.000E+00	5.926E-08
B	0.4	0.00	3218.	0.	112.	404.8	392.6	0.0	0.000E+00	0.000E+00	4.665E-06
B	3.0	0.14	3218.	0.	112.	404.8	392.6	0.0	0.000E+00	0.000E+00	6.466E-07
B	5.0	0.07	3218.	0.	112.	404.8	392.6	0.0	0.000E+00	0.000E+00	3.881E-07
B	5.9	0.20	3218.	0.	112.	404.8	392.6	0.0	0.000E+00	0.000E+00	3.233E-07
B	9.9	0.20	3218.	0.	112.	404.8	392.6	0.0	0.000E+00	0.000E+00	1.939E-07
C	3.0	0.07	3218.	0.	112.	307.4	177.2	0.0	0.000E+00	0.000E+00	1.609E-06
C	4.0	0.54	3218.	0.	112.	307.4	177.2	0.0	0.000E+00	0.000E+00	1.206E-06
C	5.0	0.14	3218.	0.	112.	307.4	177.2	0.0	0.000E+00	0.000E+00	9.656E-07
C	5.9	0.20	3218.	0.	112.	307.4	177.2	0.0	0.000E+00	0.000E+00	8.045E-07
C	7.9	0.34	3218.	0.	112.	307.4	177.2	0.0	0.000E+00	0.000E+00	6.031E-07
C	9.9	0.07	3218.	0.	112.	307.4	177.2	0.0	0.000E+00	0.000E+00	4.826E-07
D	0.4	0.13	3218.	0.	112.	216.4	68.3	0.0	0.000E+00	0.000E+00	1.363E-05
D	0.5	0.07	3218.	0.	112.	216.4	68.3	0.0	0.000E+00	0.000E+00	1.131E-05
D	0.7	0.14	3218.	0.	112.	216.4	68.3	0.0	0.000E+00	0.000E+00	7.543E-06
D	1.0	0.20	3218.	0.	112.	216.4	68.3	0.0	0.000E+00	0.000E+00	5.657E-06
D	1.2	0.61	3218.	0.	112.	216.4	68.3	0.0	0.000E+00	0.000E+00	4.526E-06
D	1.5	0.68	3218.	0.	112.	216.4	68.3	0.0	0.000E+00	0.000E+00	3.772E-06
D	2.0	1.69	3218.	0.	112.	216.4	68.3	0.0	0.000E+00	0.000E+00	2.835E-06
D	3.0	5.28	3218.	0.	112.	216.4	68.3	0.0	0.000E+00	0.000E+00	1.889E-06
D	4.0	6.50	3218.	0.	112.	216.4	68.3	0.0	0.000E+00	0.000E+00	1.416E-06
D	5.0	8.54	3218.	0.	112.	216.4	68.3	0.0	0.000E+00	0.000E+00	1.134E-06
D	5.9	7.39	3218.	0.	112.	216.4	68.3	0.0	0.000E+00	0.000E+00	9.443E-07
D	7.9	11.52	3218.	0.	112.	216.4	68.3	0.0	0.000E+00	0.000E+00	7.080E-07
D	9.9	6.84	3218.	0.	112.	216.4	68.3	0.0	0.000E+00	0.000E+00	5.665E-07
D	24.4	3.12	3218.	0.	112.	216.4	68.3	0.0	0.000E+00	0.000E+00	2.304E-07
E	0.4	0.07	7000.	0.	112.	310.5	66.2	0.0	0.000E+00	0.000E+00	9.048E-06
E	0.5	0.07	7000.	0.	112.	310.5	66.2	0.0	0.000E+00	0.000E+00	7.513E-06
E	0.7	0.20	7000.	0.	112.	310.5	66.2	0.0	0.000E+00	0.000E+00	5.009E-06
E	1.0	0.20	7000.	0.	112.	310.5	66.2	0.0	0.000E+00	0.000E+00	3.756E-06
E	1.2	0.14	7000.	0.	112.	310.5	66.2	0.0	0.000E+00	0.000E+00	3.005E-06
E	1.5	0.20	7000.	0.	112.	310.5	66.2	0.0	0.000E+00	0.000E+00	2.504E-06
E	2.0	0.61	7000.	0.	112.	310.5	66.2	0.0	0.000E+00	0.000E+00	1.882E-06
E	3.0	1.69	7000.	0.	112.	310.5	66.2	0.0	0.000E+00	0.000E+00	1.254E-06
E	3.9	3.25	7000.	0.	112.	310.5	66.2	0.0	0.000E+00	0.000E+00	9.402E-07



E	4.9	4.47	7000.	0.	112.	310.5	66.2	0.0	0.000E+00	0.000E+00	7.526E-07
E	5.9	3.86	7000.	0.	112.	310.5	66.2	0.0	0.000E+00	0.000E+00	6.270E-07
E	7.9	4.00	7000.	0.	112.	310.5	66.2	0.0	0.000E+00	0.000E+00	4.701E-07
E	9.8	2.44	7000.	0.	112.	310.5	66.2	0.0	0.000E+00	0.000E+00	3.761E-07
E	24.2	2.44	7000.	0.	112.	310.5	66.2	0.0	0.000E+00	0.000E+00	1.530E-07
F	0.4	0.04	90000.	0.	112.	1000.0	92.1	0.0	0.000E+00	0.000E+00	4.035E-06
F	1.2	0.27	90000.	0.	112.	1000.0	92.1	0.0	0.000E+00	0.000E+00	1.340E-06
F	1.5	0.27	90000.	0.	112.	1000.0	92.1	0.0	0.000E+00	0.000E+00	1.117E-06
F	2.0	0.34	90000.	0.	112.	1000.0	92.1	0.0	0.000E+00	0.000E+00	8.395E-07
F	3.0	0.81	90000.	0.	112.	1000.0	92.1	0.0	0.000E+00	0.000E+00	5.592E-07
F	3.9	1.49	90000.	0.	112.	1000.0	92.1	0.0	0.000E+00	0.000E+00	4.193E-07
F	4.9	1.42	90000.	0.	112.	1000.0	92.1	0.0	0.000E+00	0.000E+00	3.356E-07
F	5.9	1.96	90000.	0.	112.	1000.0	92.1	0.0	0.000E+00	0.000E+00	2.796E-07
F	7.9	3.46	90000.	0.	112.	1000.0	92.1	0.0	0.000E+00	0.000E+00	2.096E-07
F	9.8	0.54	90000.	0.	112.	1000.0	92.1	0.0	0.000E+00	0.000E+00	1.677E-07
G	0.4	0.09	90000.	0.	112.	1000.0	46.0	0.0	0.000E+00	0.000E+00	8.741E-07
G	1.0	0.14	90000.	0.	112.	1000.0	46.0	0.0	0.000E+00	0.000E+00	3.629E-07
G	1.2	0.20	90000.	0.	112.	1000.0	46.0	0.0	0.000E+00	0.000E+00	2.903E-07
G	1.5	0.14	90000.	0.	112.	1000.0	46.0	0.0	0.000E+00	0.000E+00	2.419E-07
G	2.0	0.41	90000.	0.	112.	1000.0	46.0	0.0	0.000E+00	0.000E+00	1.819E-07
G	3.0	1.63	90000.	0.	112.	1000.0	46.0	0.0	0.000E+00	0.000E+00	1.211E-07
G	3.9	1.63	90000.	0.	112.	1000.0	46.0	0.0	0.000E+00	0.000E+00	9.083E-08
G	4.9	1.69	90000.	0.	112.	1000.0	46.0	0.0	0.000E+00	0.000E+00	7.271E-08
G	5.9	1.15	90000.	0.	112.	1000.0	46.0	0.0	0.000E+00	0.000E+00	6.057E-08
G	7.9	2.71	90000.	0.	112.	1000.0	46.0	0.0	0.000E+00	0.000E+00	4.541E-08
G	9.8	0.68	90000.	0.	112.	1000.0	46.0	0.0	0.000E+00	0.000E+00	3.634E-08
G	24.2	0.07	90000.	0.	112.	1000.0	46.0	0.0	0.000E+00	0.000E+00	1.478E-08

USNRC COMPUTER CODE-PAVAN, VERSION 2.0

RUN DATE: 03/14/07

PLANT NAME: Oyster Creek

METEOROLOGICAL INSTRUMENTATION

DATA PERIOD:

WIND SENSORS HEIGHT: 112 meters

TYPE OF RELEASE: Elevated Release

DELTA-T HEIGHTS: 10.1-115.8 meters

SOURCE OF DATA:

COMMENTS: Oyster Creek, Elevated Release, Stack, 1995-1999 met data

PROGRAM: PAVAN, 10/76, 8/79 REVISION, IMPLEMENTATION OF REGULATORY GUIDE 1.145

LOW POPULATION ZONE CALCULATIONS:

SSW SECTOR BOUNDARY DISTANCE = 3218.0 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.

1.363E-05	1.131E-05	9.048E-06	7.543E-06	7.513E-06	5.657E-06	5.009E-06	4.665E-06	4.526E-06	4.035E-06
0.125	0.193	0.259	0.395	0.463	0.666	0.869	0.873	1.483	1.527
0.00423	0.00651	0.00875	0.01333	0.01561	0.02247	0.02933	0.02947	0.05004	0.05151
3.772E-06	3.756E-06	3.005E-06	2.835E-06	2.504E-06	1.889E-06	1.882E-06	1.609E-06	1.416E-06	1.340E-06
2.204	2.408	2.543	4.237	4.440	9.725	10.335	10.403	16.907	17.178
0.07437	0.08123	0.08580	0.14295	0.14981	0.32812	0.34869	0.35098	0.57043	0.57957
1.254E-06	1.206E-06	1.134E-06	1.117E-06	9.656E-07	9.443E-07	9.402E-07	8.741E-07	8.395E-07	8.045E-07
18.872	19.414	27.951	28.222	28.358	35.743	38.995	39.089	39.427	39.631
0.63672	0.65501	0.94304	0.95219	0.95676	1.20593	1.31566	1.31882	1.33025	1.33710
7.526E-07	7.080E-07	6.466E-07	6.270E-07	6.031E-07	5.665E-07	5.592E-07	4.826E-07	4.701E-07	4.193E-07
44.103	55.621	55.756	59.618	59.957	66.800	67.613	67.681	71.679	73.169
1.48798	1.87660	1.88117	2.01147	2.02290	2.25378	2.28121	2.28350	2.41837	2.46866
3.881E-07	3.761E-07	3.629E-07	3.356E-07	3.233E-07	2.903E-07	2.796E-07	2.419E-07	2.304E-07	2.096E-07
73.237	75.676	75.812	77.234	77.438	77.641	79.606	79.741	82.858	86.314
2.47095	2.55324	2.55782	2.60582	2.61268	2.61954	2.68583	2.69040	2.79556	2.91214
1.939E-07	1.819E-07	1.677E-07	1.530E-07	1.481E-07	1.211E-07	1.186E-07	9.879E-08	9.083E-08	7.406E-08
86.517	86.923	87.465	89.905	89.972	91.598	91.666	91.802	93.428	93.631
2.91900	2.93272	2.95100	3.03330	3.03558	3.09045	3.09273	3.09731	3.15217	3.15903
7.271E-08	6.057E-08	5.926E-08	4.541E-08	3.634E-08	1.478E-08				
95.325	96.477	96.545	99.255	99.932	100.000				
3.21618	3.25504	3.25732	3.34876	3.37162	3.37391				

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 = 3.340E-05 DISTANCE = 800.000

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)= 0.050  
 HANDCHECK GRAPH: SLOPE LT -1.0 FOR LOW PERCENTAGES. XSAVE ( 3)= 0.081  
 HANDCHECK GRAPH: SLOPE LT -1.0 FOR LOW PERCENTAGES. XSAVE ( 4)= 0.348  
 HANDCHECK GRAPH: SLOPE LT -1.0 FOR LOW PERCENTAGES. XSAVE ( 5)= 0.942  
 HANDCHECK GRAPH: SLOPE LT -1.0 FOR LOW PERCENTAGES. XSAVE ( 6)= 1.314  
 HANDCHECK GRAPH: SLOPE LT -1.0 FOR LOW PERCENTAGES. XSAVE ( 7)= 1.875  
 HANDCHECK GRAPH: SLOPE LT -1.0 FOR LOW PERCENTAGES. XSAVE ( 8)= 2.279  
 HANDCHECK GRAPH: SLOPE LT -1.0 FOR LOW PERCENTAGES. XSAVE ( 9)= 2.416

K	I	XQSAVE(K,I)	XQINT(K,I)	XQSLOP(K,I)
2	1	-11.20349	-17.96667	-1.72040
2	2	-12.30568	-16.72376	-1.34267
2	3	-12.49203	-17.29642	-1.52437
2	4	-13.18295	-17.09633	-1.45022
2	5	-13.69019	-17.15697	-1.47604
2	6	-13.87721	-18.32744	-2.00280
2	7	-14.16087	-20.21104	-2.90822
2	8	-14.39667	-28.43819	-7.02326
2	9	-14.57036	NUMXQ(K)= 9	
		5.462E-06	0.034	1.000
		3.403E-06	0.101	3.000
		2.686E-06	0.169	5.000
		1.914E-06	0.337	10.000
		1.567E-06	0.506	15.000
		1.353E-06	0.675	20.000
		1.203E-06	0.843	25.000
		1.090E-06	1.012	30.000
		9.999E-07	1.181	35.000
		9.217E-07	1.350	40.000
		8.400E-07	1.518	45.000
		7.720E-07	1.687	50.000
		7.145E-07	1.856	55.000
		6.466E-07	2.024	60.000
		5.869E-07	2.193	65.000
		5.045E-07	2.362	70.000
		1.577E-06	0.5	14.82

ANNUAL AVERAGE = 1.24E-08

K= 2 FIVEXQ(K)= 1.577E-06 FIVEPR(K)=14.820

FUMIGATION X/Q AT THE BOUNDARY: 1.68E-05

EXPONENTIAL TERM AND FREQUENCIES

9.937E-01	9.601E-01	8.190E-01	4.773E-01	2.610E-01	2.388E-01	5.166E-02
0.542	1.156	2.511	13.124	65.827	89.472	100.000

USNRC COMPUTER CODE-PAVAN, VERSION 2.0

RUN DATE: 03/14/07

PLANT NAME: Oyster Creek

METEOROLOGICAL INSTRUMENTATION

DATA PERIOD:

WIND SENSORS HEIGHT: 112 meters

TYPE OF RELEASE: Elevated Release

DELTA-T HEIGHTS: 10.1-115.8 meters

SOURCE OF DATA:

COMMENTS: Oyster Creek, Elevated Release, Stack, 1995-1999 met data

PROGRAM: PAVAN, 10/76, 8/79 REVISION, IMPLEMENTATION OF REGULATORY GUIDE 1.145

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

CLASS	METER/SEC	PERCENT	METERS	METERS	METERS	SIGMA-Y METERS	SIGMA-Z METERS	MEANDER-SY METERS	** CHI/Q VALUES (SEC/CUBIC METER)		
									MEANDER	BLDG WAKE	USED
AT 112.0 METERS											
A	3.0	0.11	3218.	0.	112.	538.2	1000.0	0.0	0.000E+00	0.000E+00	1.976E-07
A	5.0	0.07	3218.	0.	112.	538.2	1000.0	0.0	0.000E+00	0.000E+00	1.186E-07
A	5.9	0.19	3218.	0.	112.	538.2	1000.0	0.0	0.000E+00	0.000E+00	9.879E-08
A	7.9	0.82	3218.	0.	112.	538.2	1000.0	0.0	0.000E+00	0.000E+00	7.406E-08
A	9.9	0.44	3218.	0.	112.	538.2	1000.0	0.0	0.000E+00	0.000E+00	5.926E-08
A	24.4	0.11	3218.	0.	112.	538.2	1000.0	0.0	0.000E+00	0.000E+00	2.410E-08
CA= 957.SQ.METERS											
B	0.4	0.00	3218.	0.	112.	404.8	392.6	0.0	0.000E+00	0.000E+00	4.665E-06
B	4.0	0.11	3218.	0.	112.	404.8	392.6	0.0	0.000E+00	0.000E+00	4.848E-07
B	5.0	0.30	3218.	0.	112.	404.8	392.6	0.0	0.000E+00	0.000E+00	3.881E-07
B	5.9	0.56	3218.	0.	112.	404.8	392.6	0.0	0.000E+00	0.000E+00	3.233E-07
B	7.9	1.59	3218.	0.	112.	404.8	392.6	0.0	0.000E+00	0.000E+00	2.424E-07
B	9.9	0.41	3218.	0.	112.	404.8	392.6	0.0	0.000E+00	0.000E+00	1.939E-07
B	24.4	0.22	3218.	0.	112.	404.8	392.6	0.0	0.000E+00	0.000E+00	7.888E-08
C	0.7	0.04	3218.	0.	112.	307.4	177.2	0.0	0.000E+00	0.000E+00	6.426E-06
C	3.0	0.07	3218.	0.	112.	307.4	177.2	0.0	0.000E+00	0.000E+00	1.609E-06
C	4.0	0.19	3218.	0.	112.	307.4	177.2	0.0	0.000E+00	0.000E+00	1.206E-06
C	5.0	0.67	3218.	0.	112.	307.4	177.2	0.0	0.000E+00	0.000E+00	9.656E-07
C	5.9	1.15	3218.	0.	112.	307.4	177.2	0.0	0.000E+00	0.000E+00	8.045E-07
C	7.9	1.33	3218.	0.	112.	307.4	177.2	0.0	0.000E+00	0.000E+00	6.031E-07
C	9.9	1.04	3218.	0.	112.	307.4	177.2	0.0	0.000E+00	0.000E+00	4.826E-07
C	24.4	0.37	3218.	0.	112.	307.4	177.2	0.0	0.000E+00	0.000E+00	1.963E-07
D	0.4	0.05	3218.	0.	112.	216.4	68.3	0.0	0.000E+00	0.000E+00	1.363E-05
D	0.5	0.04	3218.	0.	112.	216.4	68.3	0.0	0.000E+00	0.000E+00	1.131E-05
D	0.7	0.04	3218.	0.	112.	216.4	68.3	0.0	0.000E+00	0.000E+00	7.543E-06
D	1.0	0.19	3218.	0.	112.	216.4	68.3	0.0	0.000E+00	0.000E+00	5.657E-06
D	1.2	0.19	3218.	0.	112.	216.4	68.3	0.0	0.000E+00	0.000E+00	4.526E-06
D	1.5	0.33	3218.	0.	112.	216.4	68.3	0.0	0.000E+00	0.000E+00	3.772E-06
D	2.0	0.78	3218.	0.	112.	216.4	68.3	0.0	0.000E+00	0.000E+00	2.835E-06
D	3.0	2.93	3218.	0.	112.	216.4	68.3	0.0	0.000E+00	0.000E+00	1.889E-06
D	4.0	4.48	3218.	0.	112.	216.4	68.3	0.0	0.000E+00	0.000E+00	1.416E-06
D	5.0	6.41	3218.	0.	112.	216.4	68.3	0.0	0.000E+00	0.000E+00	1.134E-06
D	5.9	8.56	3218.	0.	112.	216.4	68.3	0.0	0.000E+00	0.000E+00	9.443E-07
D	7.9	12.67	3218.	0.	112.	216.4	68.3	0.0	0.000E+00	0.000E+00	7.080E-07
D	9.9	10.08	3218.	0.	112.	216.4	68.3	0.0	0.000E+00	0.000E+00	5.665E-07
D	24.4	12.27	3218.	0.	112.	216.4	68.3	0.0	0.000E+00	0.000E+00	2.304E-07
E	0.4	0.03	7000.	0.	112.	310.5	66.2	0.0	0.000E+00	0.000E+00	9.048E-06
E	0.5	0.04	7000.	0.	112.	310.5	66.2	0.0	0.000E+00	0.000E+00	7.513E-06
E	0.7	0.07	7000.	0.	112.	310.5	66.2	0.0	0.000E+00	0.000E+00	5.009E-06
E	1.0	0.15	7000.	0.	112.	310.5	66.2	0.0	0.000E+00	0.000E+00	3.756E-06

E	1.5	0.07	7000.	0.	112.	310.5	66.2	0.0	0.000E+00	0.000E+00	2.504E-06
E	2.0	0.41	7000.	0.	112.	310.5	66.2	0.0	0.000E+00	0.000E+00	1.882E-06
E	3.0	1.07	7000.	0.	112.	310.5	66.2	0.0	0.000E+00	0.000E+00	1.254E-06
E	3.9	1.78	7000.	0.	112.	310.5	66.2	0.0	0.000E+00	0.000E+00	9.402E-07
E	4.9	1.82	7000.	0.	112.	310.5	66.2	0.0	0.000E+00	0.000E+00	7.526E-07
E	5.9	2.41	7000.	0.	112.	310.5	66.2	0.0	0.000E+00	0.000E+00	6.270E-07
E	7.9	3.89	7000.	0.	112.	310.5	66.2	0.0	0.000E+00	0.000E+00	4.701E-07
E	9.8	2.04	7000.	0.	112.	310.5	66.2	0.0	0.000E+00	0.000E+00	3.761E-07
E	24.2	4.45	7000.	0.	112.	310.5	66.2	0.0	0.000E+00	0.000E+00	1.530E-07
F	0.4	0.02	90000.	0.	112.	1000.0	92.1	0.0	0.000E+00	0.000E+00	4.035E-06
F	1.0	0.04	90000.	0.	112.	1000.0	92.1	0.0	0.000E+00	0.000E+00	1.675E-06
F	1.2	0.11	90000.	0.	112.	1000.0	92.1	0.0	0.000E+00	0.000E+00	1.340E-06
F	1.5	0.15	90000.	0.	112.	1000.0	92.1	0.0	0.000E+00	0.000E+00	1.117E-06
F	2.0	0.15	90000.	0.	112.	1000.0	92.1	0.0	0.000E+00	0.000E+00	8.395E-07
F	3.0	0.85	90000.	0.	112.	1000.0	92.1	0.0	0.000E+00	0.000E+00	5.592E-07
F	3.9	1.04	90000.	0.	112.	1000.0	92.1	0.0	0.000E+00	0.000E+00	4.193E-07
F	4.9	1.22	90000.	0.	112.	1000.0	92.1	0.0	0.000E+00	0.000E+00	3.356E-07
F	5.9	1.41	90000.	0.	112.	1000.0	92.1	0.0	0.000E+00	0.000E+00	2.796E-07
F	7.9	1.45	90000.	0.	112.	1000.0	92.1	0.0	0.000E+00	0.000E+00	2.096E-07
F	9.8	0.30	90000.	0.	112.	1000.0	92.1	0.0	0.000E+00	0.000E+00	1.677E-07
G	0.4	0.09	90000.	0.	112.	1000.0	46.0	0.0	0.000E+00	0.000E+00	8.741E-07
G	1.0	0.15	90000.	0.	112.	1000.0	46.0	0.0	0.000E+00	0.000E+00	3.629E-07
G	1.2	0.19	90000.	0.	112.	1000.0	46.0	0.0	0.000E+00	0.000E+00	2.903E-07
G	1.5	0.04	90000.	0.	112.	1000.0	46.0	0.0	0.000E+00	0.000E+00	2.419E-07
G	2.0	0.41	90000.	0.	112.	1000.0	46.0	0.0	0.000E+00	0.000E+00	1.819E-07
G	3.0	0.82	90000.	0.	112.	1000.0	46.0	0.0	0.000E+00	0.000E+00	1.211E-07
G	3.9	0.74	90000.	0.	112.	1000.0	46.0	0.0	0.000E+00	0.000E+00	9.083E-08
G	4.9	1.19	90000.	0.	112.	1000.0	46.0	0.0	0.000E+00	0.000E+00	7.271E-08
G	5.9	1.22	90000.	0.	112.	1000.0	46.0	0.0	0.000E+00	0.000E+00	6.057E-08
G	7.9	1.30	90000.	0.	112.	1000.0	46.0	0.0	0.000E+00	0.000E+00	4.541E-08
G	9.8	0.07	90000.	0.	112.	1000.0	46.0	0.0	0.000E+00	0.000E+00	3.634E-08
G	24.2	0.04	90000.	0.	112.	1000.0	46.0	0.0	0.000E+00	0.000E+00	1.478E-08

USNRC COMPUTER CODE-PAVAN, VERSION 2.0

RUN DATE: 03/14/07

PLANT NAME: Oyster Creek

METEOROLOGICAL INSTRUMENTATION

DATA PERIOD:

WIND SENSORS HEIGHT: 112 meters

TYPE OF RELEASE: Elevated Release

DELTA-T HEIGHTS: 10.1-115.8 meters

SOURCE OF DATA:

COMMENTS: Oyster Creek, Elevated Release, Stack, 1995-1999 met data

PROGRAM: PAVAN, 10/76, 8/79 REVISION, IMPLEMENTATION OF REGULATORY GUIDE 1.145

LOW POPULATION ZONE CALCULATIONS:

SW SECTOR BOUNDARY DISTANCE = 3218.0 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.

1.363E-05	1.131E-05	9.048E-06	7.543E-06	7.513E-06	6.426E-06	5.657E-06	5.009E-06	4.665E-06	4.526E-06
0.055	0.092	0.120	0.157	0.194	0.231	0.417	0.491	0.493	0.678
0.00338	0.00567	0.00741	0.00970	0.01198	0.01427	0.02570	0.03027	0.03041	0.04184
4.035E-06	3.772E-06	3.756E-06	2.835E-06	2.504E-06	1.889E-06	1.882E-06	1.675E-06	1.609E-06	1.416E-06
0.702	1.036	1.184	1.962	2.036	4.964	5.372	5.409	5.483	9.967
0.04331	0.06389	0.07303	0.12104	0.12561	0.30620	0.33135	0.33363	0.33820	0.61481
1.340E-06	1.254E-06	1.206E-06	1.134E-06	1.117E-06	9.656E-07	9.443E-07	9.402E-07	8.741E-07	8.395E-07
10.078	11.153	11.338	17.749	17.897	18.564	27.125	28.904	28.996	29.144
0.62166	0.68796	0.69939	1.09486	1.10401	1.14515	1.67321	1.78294	1.78862	1.79777
8.045E-07	7.526E-07	7.080E-07	6.270E-07	6.031E-07	5.665E-07	5.592E-07	4.848E-07	4.826E-07	4.701E-07
30.293	32.109	44.783	47.192	48.526	58.606	59.458	59.569	60.607	64.498
1.86863	1.98065	2.76245	2.91104	2.99333	3.61512	3.66770	3.67455	3.73856	3.97859
4.193E-07	3.881E-07	3.761E-07	3.629E-07	3.356E-07	3.233E-07	2.903E-07	2.796E-07	2.424E-07	2.419E-07
65.536	65.832	67.870	68.018	69.241	69.797	69.983	71.391	72.984	73.021
4.04260	4.06088	4.18661	4.19576	4.27119	4.30548	4.31691	4.40378	4.50208	4.50436
2.304E-07	2.096E-07	1.976E-07	1.963E-07	1.939E-07	1.819E-07	1.677E-07	1.530E-07	1.211E-07	1.186E-07
85.288	86.733	86.844	87.215	87.622	88.030	88.327	92.774	93.589	93.663
5.26102	5.35017	5.35703	5.37989	5.40504	5.43018	5.44847	5.72279	5.77308	5.77765
9.879E-08	9.083E-08	7.888E-08	7.406E-08	7.271E-08	6.057E-08	5.926E-08	4.541E-08	3.634E-08	2.410E-08
93.848	94.589	94.812	95.627	96.813	98.036	98.481	99.778	99.852	99.963
5.78908	5.83480	5.84852	5.89881	5.97196	6.04740	6.07483	6.15484	6.15941	6.16627
1.478E-08									
100.000									
6.16855									

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 = 3.340E-05 DISTANCE = 800.000

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)= 0.006  
 HANDCHECK GRAPH: SLOPE LT -1.0 FOR LOW PERCENTAGES. XSAVE ( 3)= 0.042  
 HANDCHECK GRAPH: SLOPE LT -1.0 FOR LOW PERCENTAGES. XSAVE ( 4)= 0.073  
 HANDCHECK GRAPH: SLOPE LT -1.0 FOR LOW PERCENTAGES. XSAVE ( 5)= 0.614  
 HANDCHECK GRAPH: SLOPE LT -1.0 FOR LOW PERCENTAGES. XSAVE ( 6)= 1.781  
 HANDCHECK GRAPH: SLOPE LT -1.0 FOR LOW PERCENTAGES. XSAVE ( 7)= 2.760  
 HANDCHECK GRAPH: SLOPE LT -1.0 FOR LOW PERCENTAGES. XSAVE ( 8)= 3.612  
 HANDCHECK GRAPH: SLOPE LT -1.0 FOR LOW PERCENTAGES. XSAVE ( 9)= 3.664

K	I	XQSAVE(K, I)	XQINT(K, I)	XQSLOP(K, I)
3	1	-11.20349	-17.16049	-1.49505
3	2	-11.38939	-18.19652	-1.76345
3	3	-12.30568	-16.24903	-1.18046
3	4	-12.49203	-17.06726	-1.43755
3	5	-13.46772	-16.01385	-1.01685
3	6	-13.87721	-17.11823	-1.54243
3	7	-14.16087	-17.73078	-1.86191
3	8	-14.38379	-17.89978	-1.95593
3	9	-14.39667	NUMXQ(K)= 9	
		3.978E-06	0.062	1.000
		2.513E-06	0.185	3.000
		1.985E-06	0.308	5.000
		1.414E-06	0.617	10.000
		1.218E-06	0.925	15.000
		1.090E-06	1.234	20.000
		9.976E-07	1.542	25.000
		9.184E-07	1.851	30.000
		8.325E-07	2.159	35.000
		7.632E-07	2.467	40.000
		7.052E-07	2.776	45.000
		6.470E-07	3.084	50.000
		5.977E-07	3.393	55.000
		1.571E-06	0.5	8.11

ANNUAL AVERAGE = 1.93E-08

K= 3 FIVEXQ(K)= 1.571E-06 FIVEPR(K)= 8.106

FUMIGATION X/Q AT THE BOUNDARY: 1.68E-05

EXPONENTIAL TERM AND FREQUENCIES

9.937E-01	9.601E-01	8.190E-01	4.773E-01	2.610E-01	2.388E-01	5.166E-02
1.742	4.931	9.786	16.517	75.532	93.756	100.000

USNRC COMPUTER CODE-PAVAN, VERSION 2.0

RUN DATE: 03/14/07

PLANT NAME: Oyster Creek

METEOROLOGICAL INSTRUMENTATION

DATA PERIOD:

WIND SENSORS HEIGHT: 112 meters

TYPE OF RELEASE: Elevated Release

DELTA-T HEIGHTS: 10.1-115.8 meters

SOURCE OF DATA:

COMMENTS: Oyster Creek, Elevated Release, Stack, 1995-1999 met data

PROGRAM: PAVAN, 10/76, 8/79 REVISION, IMPLEMENTATION OF REGULATORY GUIDE 1.145

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

CLASS	METER/SEC	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	USED
AT 112.0 METERS											
A	2.0	0.04	3218.	0.	112.	538.2	1000.0	0.0	0.000E+00	0.000E+00	2.966E-07
A	5.0	0.22	3218.	0.	112.	538.2	1000.0	0.0	0.000E+00	0.000E+00	1.186E-07
A	5.9	0.35	3218.	0.	112.	538.2	1000.0	0.0	0.000E+00	0.000E+00	9.879E-08
A	7.9	0.84	3218.	0.	112.	538.2	1000.0	0.0	0.000E+00	0.000E+00	7.406E-08
A	9.9	0.35	3218.	0.	112.	538.2	1000.0	0.0	0.000E+00	0.000E+00	5.926E-08
A	24.4	0.18	3218.	0.	112.	538.2	1000.0	0.0	0.000E+00	0.000E+00	2.410E-08
B	0.4	0.00	3218.	0.	112.	404.8	392.6	0.0	0.000E+00	0.000E+00	4.665E-06
B	3.0	0.09	3218.	0.	112.	404.8	392.6	0.0	0.000E+00	0.000E+00	6.466E-07
B	4.0	0.31	3218.	0.	112.	404.8	392.6	0.0	0.000E+00	0.000E+00	4.848E-07
B	5.0	1.06	3218.	0.	112.	404.8	392.6	0.0	0.000E+00	0.000E+00	3.881E-07
B	5.9	1.72	3218.	0.	112.	404.8	392.6	0.0	0.000E+00	0.000E+00	3.233E-07
B	7.9	2.56	3218.	0.	112.	404.8	392.6	0.0	0.000E+00	0.000E+00	2.424E-07
B	9.9	0.66	3218.	0.	112.	404.8	392.6	0.0	0.000E+00	0.000E+00	1.939E-07
B	24.4	0.18	3218.	0.	112.	404.8	392.6	0.0	0.000E+00	0.000E+00	7.888E-08
C	2.0	0.04	3218.	0.	112.	307.4	177.2	0.0	0.000E+00	0.000E+00	2.415E-06
C	3.0	0.18	3218.	0.	112.	307.4	177.2	0.0	0.000E+00	0.000E+00	1.609E-06
C	4.0	0.62	3218.	0.	112.	307.4	177.2	0.0	0.000E+00	0.000E+00	1.206E-06
C	5.0	1.81	3218.	0.	112.	307.4	177.2	0.0	0.000E+00	0.000E+00	9.656E-07
C	5.9	3.09	3218.	0.	112.	307.4	177.2	0.0	0.000E+00	0.000E+00	8.045E-07
C	7.9	2.29	3218.	0.	112.	307.4	177.2	0.0	0.000E+00	0.000E+00	6.031E-07
C	9.9	0.62	3218.	0.	112.	307.4	177.2	0.0	0.000E+00	0.000E+00	4.826E-07
C	24.4	0.09	3218.	0.	112.	307.4	177.2	0.0	0.000E+00	0.000E+00	1.963E-07
D	0.4	0.05	3218.	0.	112.	216.4	68.3	0.0	0.000E+00	0.000E+00	1.363E-05
D	0.7	0.04	3218.	0.	112.	216.4	68.3	0.0	0.000E+00	0.000E+00	7.543E-06
D	1.0	0.18	3218.	0.	112.	216.4	68.3	0.0	0.000E+00	0.000E+00	5.657E-06
D	1.2	0.22	3218.	0.	112.	216.4	68.3	0.0	0.000E+00	0.000E+00	4.526E-06
D	1.5	0.35	3218.	0.	112.	216.4	68.3	0.0	0.000E+00	0.000E+00	3.772E-06
D	2.0	1.01	3218.	0.	112.	216.4	68.3	0.0	0.000E+00	0.000E+00	2.835E-06
D	3.0	2.78	3218.	0.	112.	216.4	68.3	0.0	0.000E+00	0.000E+00	1.889E-06
D	4.0	5.91	3218.	0.	112.	216.4	68.3	0.0	0.000E+00	0.000E+00	1.416E-06
D	5.0	7.89	3218.	0.	112.	216.4	68.3	0.0	0.000E+00	0.000E+00	1.134E-06
D	5.9	8.03	3218.	0.	112.	216.4	68.3	0.0	0.000E+00	0.000E+00	9.443E-07
D	7.9	12.17	3218.	0.	112.	216.4	68.3	0.0	0.000E+00	0.000E+00	7.080E-07
D	9.9	9.57	3218.	0.	112.	216.4	68.3	0.0	0.000E+00	0.000E+00	5.665E-07
D	24.4	9.52	3218.	0.	112.	216.4	68.3	0.0	0.000E+00	0.000E+00	2.304E-07
E	0.4	0.04	7000.	0.	112.	310.5	66.2	0.0	0.000E+00	0.000E+00	9.048E-06
E	0.7	0.04	7000.	0.	112.	310.5	66.2	0.0	0.000E+00	0.000E+00	5.009E-06
E	1.0	0.26	7000.	0.	112.	310.5	66.2	0.0	0.000E+00	0.000E+00	3.756E-06
E	1.2	0.04	7000.	0.	112.	310.5	66.2	0.0	0.000E+00	0.000E+00	3.005E-06



E	1.5	0.22	7000.	0.	112.	310.5	66.2	0.0	0.000E+00	0.000E+00	2.504E-06
E	2.0	0.40	7000.	0.	112.	310.5	66.2	0.0	0.000E+00	0.000E+00	1.882E-06
E	3.0	1.15	7000.	0.	112.	310.5	66.2	0.0	0.000E+00	0.000E+00	1.254E-06
E	3.9	1.68	7000.	0.	112.	310.5	66.2	0.0	0.000E+00	0.000E+00	9.402E-07
E	4.9	1.76	7000.	0.	112.	310.5	66.2	0.0	0.000E+00	0.000E+00	7.526E-07
E	5.9	2.16	7000.	0.	112.	310.5	66.2	0.0	0.000E+00	0.000E+00	6.270E-07
E	7.9	4.19	7000.	0.	112.	310.5	66.2	0.0	0.000E+00	0.000E+00	4.701E-07
E	9.8	1.50	7000.	0.	112.	310.5	66.2	0.0	0.000E+00	0.000E+00	3.761E-07
E	24.2	3.04	7000.	0.	112.	310.5	66.2	0.0	0.000E+00	0.000E+00	1.530E-07
F	0.4	0.01	90000.	0.	112.	1000.0	92.1	0.0	0.000E+00	0.000E+00	4.035E-06
F	0.7	0.04	90000.	0.	112.	1000.0	92.1	0.0	0.000E+00	0.000E+00	2.234E-06
F	1.2	0.04	90000.	0.	112.	1000.0	92.1	0.0	0.000E+00	0.000E+00	1.340E-06
F	2.0	0.04	90000.	0.	112.	1000.0	92.1	0.0	0.000E+00	0.000E+00	8.395E-07
F	3.0	0.71	90000.	0.	112.	1000.0	92.1	0.0	0.000E+00	0.000E+00	5.592E-07
F	3.9	0.53	90000.	0.	112.	1000.0	92.1	0.0	0.000E+00	0.000E+00	4.193E-07
F	4.9	0.84	90000.	0.	112.	1000.0	92.1	0.0	0.000E+00	0.000E+00	3.356E-07
F	5.9	0.75	90000.	0.	112.	1000.0	92.1	0.0	0.000E+00	0.000E+00	2.796E-07
F	7.9	0.84	90000.	0.	112.	1000.0	92.1	0.0	0.000E+00	0.000E+00	2.096E-07
F	9.8	0.13	90000.	0.	112.	1000.0	92.1	0.0	0.000E+00	0.000E+00	1.677E-07
G	0.4	0.06	90000.	0.	112.	1000.0	46.0	0.0	0.000E+00	0.000E+00	8.741E-07
G	0.5	0.04	90000.	0.	112.	1000.0	46.0	0.0	0.000E+00	0.000E+00	7.258E-07
G	0.7	0.04	90000.	0.	112.	1000.0	46.0	0.0	0.000E+00	0.000E+00	4.839E-07
G	1.0	0.04	90000.	0.	112.	1000.0	46.0	0.0	0.000E+00	0.000E+00	3.629E-07
G	1.2	0.09	90000.	0.	112.	1000.0	46.0	0.0	0.000E+00	0.000E+00	2.903E-07
G	1.5	0.22	90000.	0.	112.	1000.0	46.0	0.0	0.000E+00	0.000E+00	2.419E-07
G	2.0	0.18	90000.	0.	112.	1000.0	46.0	0.0	0.000E+00	0.000E+00	1.819E-07
G	3.0	0.71	90000.	0.	112.	1000.0	46.0	0.0	0.000E+00	0.000E+00	1.211E-07
G	3.9	0.97	90000.	0.	112.	1000.0	46.0	0.0	0.000E+00	0.000E+00	9.083E-08
G	4.9	0.57	90000.	0.	112.	1000.0	46.0	0.0	0.000E+00	0.000E+00	7.271E-08
G	5.9	0.79	90000.	0.	112.	1000.0	46.0	0.0	0.000E+00	0.000E+00	6.057E-08
G	7.9	0.75	90000.	0.	112.	1000.0	46.0	0.0	0.000E+00	0.000E+00	4.541E-08
G	9.8	0.09	90000.	0.	112.	1000.0	46.0	0.0	0.000E+00	0.000E+00	3.634E-08

USNRC COMPUTER CODE-PAVAN, VERSION 2.0

RUN DATE: 03/14/07

PLANT NAME: Oyster Creek

METEOROLOGICAL INSTRUMENTATION

DATA PERIOD:

WIND SENSORS HEIGHT: 112 meters

TYPE OF RELEASE: Elevated Release

DELTA-T HEIGHTS: 10.1-115.8 meters

SOURCE OF DATA:

COMMENTS: Oyster Creek, Elevated Release, Stack, 1995-1999 met data

PROGRAM: PAVAN, 10/76, 8/79 REVISION, IMPLEMENTATION OF REGULATORY GUIDE 1.145

LOW POPULATION ZONE CALCULATIONS:

WSW SECTOR BOUNDARY DISTANCE = 3218.0 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.

1.363E-05	9.048E-06	7.543E-06	5.657E-06	5.009E-06	4.665E-06	4.526E-06	4.035E-06	3.772E-06	3.756E-06
0.054	0.093	0.137	0.313	0.357	0.360	0.581	0.595	0.948	1.212
0.00282	0.00481	0.00710	0.01624	0.01853	0.01867	0.03010	0.03083	0.04912	0.06284
3.005E-06	2.835E-06	2.504E-06	2.415E-06	2.234E-06	1.889E-06	1.882E-06	1.609E-06	1.416E-06	1.340E-06
1.256	2.270	2.491	2.535	2.579	5.357	5.754	5.930	11.839	11.883
0.06512	0.11770	0.12913	0.13142	0.13370	0.27772	0.29829	0.30744	0.61376	0.61604
1.254E-06	1.206E-06	1.134E-06	9.656E-07	9.443E-07	9.402E-07	8.741E-07	8.395E-07	8.045E-07	7.526E-07
13.029	13.647	21.540	23.347	31.373	33.048	33.109	33.153	36.240	38.004
0.67548	0.70748	1.11667	1.21040	1.62644	1.71331	1.71647	1.71876	1.87877	1.97021
7.258E-07	7.080E-07	6.466E-07	6.270E-07	6.031E-07	5.665E-07	5.592E-07	4.848E-07	4.839E-07	4.826E-07
38.048	50.218	50.306	52.466	54.759	64.328	65.033	65.342	65.386	66.003
1.97250	2.60343	2.60800	2.72001	2.83888	3.33494	3.37152	3.38752	3.38980	3.42181
4.701E-07	4.193E-07	3.881E-07	3.761E-07	3.629E-07	3.356E-07	3.233E-07	2.966E-07	2.903E-07	2.796E-07
70.192	70.721	71.780	73.279	73.323	74.161	75.880	75.925	76.013	76.762
3.63898	3.66641	3.72127	3.79899	3.80128	3.84471	3.93387	3.93615	3.94072	3.97959
2.424E-07	2.419E-07	2.304E-07	2.096E-07	1.963E-07	1.939E-07	1.819E-07	1.677E-07	1.530E-07	1.211E-07
79.320	79.540	89.065	89.902	89.991	90.652	90.828	90.961	94.003	94.709
4.11217	4.12360	4.61737	4.66081	4.66538	4.69967	4.70881	4.71567	4.87340	4.90998
1.186E-07	9.879E-08	9.083E-08	7.888E-08	7.406E-08	7.271E-08	6.057E-08	5.926E-08	4.541E-08	3.634E-08
94.929	95.282	96.252	96.428	97.266	97.839	98.633	98.986	99.735	99.824
4.92141	4.93970	4.98999	4.99913	5.04257	5.07228	5.11343	5.13172	5.17058	5.17515
2.410E-08									
100.000									
5.18430									

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 = 3.340E-05      DISTANCE = 800.000

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)= 0.063  
 HANDCHECK GRAPH: SLOPE LT -1.0 FOR LOW PERCENTAGES. XSAVE ( 3)= 0.613  
 HANDCHECK GRAPH: SLOPE LT -1.0 FOR LOW PERCENTAGES. XSAVE ( 4)= 1.115  
 HANDCHECK GRAPH: SLOPE LT -1.0 FOR LOW PERCENTAGES. XSAVE ( 5)= 1.711  
 HANDCHECK GRAPH: SLOPE LT -1.0 FOR LOW PERCENTAGES. XSAVE ( 6)= 2.601  
 HANDCHECK GRAPH: SLOPE LT -1.0 FOR LOW PERCENTAGES. XSAVE ( 7)= 3.332  
 HANDCHECK GRAPH: SLOPE LT -1.0 FOR LOW PERCENTAGES. XSAVE ( 8)= 3.368

K	I	XQSAVE(K,I)	XQINT(K,I)	XQSLOP(K,I)
4	1	-11.20349	-17.67749	-1.60743
4	2	-12.49203	-16.85519	-1.35253
4	3	-13.46772	-16.00662	-1.01371
4	4	-13.69019	-16.23820	-1.11506
4	5	-13.87721	-17.32158	-1.62672
4	6	-14.16087	-18.13869	-2.04727
4	7	-14.38379	-19.20353	-2.62784
4	8	-14.39667	NUMXQ(K)= 8	
		4.101E-06	0.052	1.000
		2.611E-06	0.156	3.000
		2.099E-06	0.259	5.000
		1.534E-06	0.518	10.000
		1.299E-06	0.778	15.000
		1.166E-06	1.037	20.000
		1.063E-06	1.296	25.000
		9.817E-07	1.555	30.000
		9.053E-07	1.815	35.000
		8.279E-07	2.074	40.000
		7.640E-07	2.333	45.000
		7.101E-07	2.592	50.000
		6.530E-07	2.851	55.000
		6.037E-07	3.111	60.000
		5.596E-07	3.370	65.000
		1.560E-06	0.5	9.64

ANNUAL AVERAGE = 1.85E-08

K= 4 FIVEXQ(K)= 1.560E-06 FIVEPR(K)= 9.645

FUMIGATION X/Q AT THE BOUNDARY: 1.68E-05

EXPONENTIAL TERM AND FREQUENCIES

9.937E-01	9.601E-01	8.190E-01	4.773E-01	2.610E-01	2.388E-01	5.166E-02
1.984	8.557	17.288	21.226	78.956	95.442	100.000

USNRC COMPUTER CODE-PAVAN, VERSION 2.0

RUN DATE: 03/14/07

PLANT NAME: Oyster Creek

METEOROLOGICAL INSTRUMENTATION

DATA PERIOD:

WIND SENSORS HEIGHT: 112 meters

TYPE OF RELEASE: Elevated Release

DELTA-T HEIGHTS: 10.1-115.8 meters

SOURCE OF DATA:

COMMENTS: Oyster Creek, Elevated Release, Stack, 1995-1999 met data

PROGRAM: PAVAN, 10/76, 8/79 REVISION, IMPLEMENTATION OF REGULATORY GUIDE 1.145

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

CLASS	METER/SEC	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	USED
AT 112.0 METERS											
A	4.0	0.12	3218.	0.	112.	538.2	1000.0	0.0	0.000E+00	0.000E+00	1.481E-07
A	5.0	0.43	3218.	0.	112.	538.2	1000.0	0.0	0.000E+00	0.000E+00	1.186E-07
A	5.9	0.49	3218.	0.	112.	538.2	1000.0	0.0	0.000E+00	0.000E+00	9.879E-08
A	7.9	0.12	3218.	0.	112.	538.2	1000.0	0.0	0.000E+00	0.000E+00	7.406E-08
A	24.4	0.06	3218.	0.	112.	538.2	1000.0	0.0	0.000E+00	0.000E+00	2.410E-08
B	0.4	0.00	3218.	0.	112.	404.8	392.6	0.0	0.000E+00	0.000E+00	4.665E-06
B	3.0	0.06	3218.	0.	112.	404.8	392.6	0.0	0.000E+00	0.000E+00	6.466E-07
B	4.0	0.25	3218.	0.	112.	404.8	392.6	0.0	0.000E+00	0.000E+00	4.848E-07
B	5.0	1.35	3218.	0.	112.	404.8	392.6	0.0	0.000E+00	0.000E+00	3.881E-07
B	5.9	1.41	3218.	0.	112.	404.8	392.6	0.0	0.000E+00	0.000E+00	3.233E-07
B	7.9	0.49	3218.	0.	112.	404.8	392.6	0.0	0.000E+00	0.000E+00	2.424E-07
B	9.9	0.18	3218.	0.	112.	404.8	392.6	0.0	0.000E+00	0.000E+00	1.939E-07
B	24.4	0.12	3218.	0.	112.	404.8	392.6	0.0	0.000E+00	0.000E+00	7.888E-08
C	2.0	0.12	3218.	0.	112.	307.4	177.2	0.0	0.000E+00	0.000E+00	2.415E-06
C	3.0	0.31	3218.	0.	112.	307.4	177.2	0.0	0.000E+00	0.000E+00	1.609E-06
C	4.0	2.03	3218.	0.	112.	307.4	177.2	0.0	0.000E+00	0.000E+00	1.206E-06
C	5.0	3.14	3218.	0.	112.	307.4	177.2	0.0	0.000E+00	0.000E+00	9.656E-07
C	5.9	2.15	3218.	0.	112.	307.4	177.2	0.0	0.000E+00	0.000E+00	8.045E-07
C	7.9	0.74	3218.	0.	112.	307.4	177.2	0.0	0.000E+00	0.000E+00	6.031E-07
C	9.9	0.06	3218.	0.	112.	307.4	177.2	0.0	0.000E+00	0.000E+00	4.826E-07
C	24.4	0.25	3218.	0.	112.	307.4	177.2	0.0	0.000E+00	0.000E+00	1.963E-07
D	0.4	0.09	3218.	0.	112.	216.4	68.3	0.0	0.000E+00	0.000E+00	1.363E-05
D	0.7	0.06	3218.	0.	112.	216.4	68.3	0.0	0.000E+00	0.000E+00	7.543E-06
D	1.0	0.25	3218.	0.	112.	216.4	68.3	0.0	0.000E+00	0.000E+00	5.657E-06
D	1.2	0.43	3218.	0.	112.	216.4	68.3	0.0	0.000E+00	0.000E+00	4.526E-06
D	1.5	0.12	3218.	0.	112.	216.4	68.3	0.0	0.000E+00	0.000E+00	3.772E-06
D	2.0	1.29	3218.	0.	112.	216.4	68.3	0.0	0.000E+00	0.000E+00	2.835E-06
D	3.0	5.78	3218.	0.	112.	216.4	68.3	0.0	0.000E+00	0.000E+00	1.889E-06
D	4.0	9.23	3218.	0.	112.	216.4	68.3	0.0	0.000E+00	0.000E+00	1.416E-06
D	5.0	9.54	3218.	0.	112.	216.4	68.3	0.0	0.000E+00	0.000E+00	1.134E-06
D	5.9	8.24	3218.	0.	112.	216.4	68.3	0.0	0.000E+00	0.000E+00	9.443E-07
D	7.9	9.04	3218.	0.	112.	216.4	68.3	0.0	0.000E+00	0.000E+00	7.080E-07
D	9.9	7.07	3218.	0.	112.	216.4	68.3	0.0	0.000E+00	0.000E+00	5.665E-07
D	24.4	5.66	3218.	0.	112.	216.4	68.3	0.0	0.000E+00	0.000E+00	2.304E-07
E	0.4	0.03	7000.	0.	112.	310.5	66.2	0.0	0.000E+00	0.000E+00	9.048E-06
E	0.5	0.06	7000.	0.	112.	310.5	66.2	0.0	0.000E+00	0.000E+00	7.513E-06
E	1.0	0.06	7000.	0.	112.	310.5	66.2	0.0	0.000E+00	0.000E+00	3.756E-06
E	1.2	0.18	7000.	0.	112.	310.5	66.2	0.0	0.000E+00	0.000E+00	3.005E-06
E	1.5	0.37	7000.	0.	112.	310.5	66.2	0.0	0.000E+00	0.000E+00	2.504E-06

E	2.0	0.49	7000.	0.	112.	310.5	66.2	0.0	0.000E+00	0.000E+00	1.882E-06
E	3.0	2.21	7000.	0.	112.	310.5	66.2	0.0	0.000E+00	0.000E+00	1.254E-06
E	3.9	1.85	7000.	0.	112.	310.5	66.2	0.0	0.000E+00	0.000E+00	9.402E-07
E	4.9	2.77	7000.	0.	112.	310.5	66.2	0.0	0.000E+00	0.000E+00	7.526E-07
E	5.9	2.28	7000.	0.	112.	310.5	66.2	0.0	0.000E+00	0.000E+00	6.270E-07
E	7.9	3.69	7000.	0.	112.	310.5	66.2	0.0	0.000E+00	0.000E+00	4.701E-07
E	9.8	2.15	7000.	0.	112.	310.5	66.2	0.0	0.000E+00	0.000E+00	3.761E-07
E	24.2	2.71	7000.	0.	112.	310.5	66.2	0.0	0.000E+00	0.000E+00	1.530E-07
F	0.4	0.02	90000.	0.	112.	1000.0	92.1	0.0	0.000E+00	0.000E+00	4.035E-06
F	1.0	0.12	90000.	0.	112.	1000.0	92.1	0.0	0.000E+00	0.000E+00	1.675E-06
F	2.0	0.06	90000.	0.	112.	1000.0	92.1	0.0	0.000E+00	0.000E+00	8.395E-07
F	3.0	0.80	90000.	0.	112.	1000.0	92.1	0.0	0.000E+00	0.000E+00	5.592E-07
F	3.9	1.11	90000.	0.	112.	1000.0	92.1	0.0	0.000E+00	0.000E+00	4.193E-07
F	4.9	1.05	90000.	0.	112.	1000.0	92.1	0.0	0.000E+00	0.000E+00	3.356E-07
F	5.9	0.92	90000.	0.	112.	1000.0	92.1	0.0	0.000E+00	0.000E+00	2.796E-07
F	7.9	0.31	90000.	0.	112.	1000.0	92.1	0.0	0.000E+00	0.000E+00	2.096E-07
F	9.8	0.06	90000.	0.	112.	1000.0	92.1	0.0	0.000E+00	0.000E+00	1.677E-07
F	24.2	0.06	90000.	0.	112.	1000.0	92.1	0.0	0.000E+00	0.000E+00	6.823E-08
G	0.4	0.07	90000.	0.	112.	1000.0	46.0	0.0	0.000E+00	0.000E+00	8.741E-07
G	0.7	0.06	90000.	0.	112.	1000.0	46.0	0.0	0.000E+00	0.000E+00	4.839E-07
G	1.0	0.06	90000.	0.	112.	1000.0	46.0	0.0	0.000E+00	0.000E+00	3.629E-07
G	1.2	0.12	90000.	0.	112.	1000.0	46.0	0.0	0.000E+00	0.000E+00	2.903E-07
G	1.5	0.12	90000.	0.	112.	1000.0	46.0	0.0	0.000E+00	0.000E+00	2.419E-07
G	2.0	0.31	90000.	0.	112.	1000.0	46.0	0.0	0.000E+00	0.000E+00	1.819E-07
G	3.0	0.98	90000.	0.	112.	1000.0	46.0	0.0	0.000E+00	0.000E+00	1.211E-07
G	3.9	1.05	90000.	0.	112.	1000.0	46.0	0.0	0.000E+00	0.000E+00	9.083E-08
G	4.9	1.17	90000.	0.	112.	1000.0	46.0	0.0	0.000E+00	0.000E+00	7.271E-08
G	5.9	1.35	90000.	0.	112.	1000.0	46.0	0.0	0.000E+00	0.000E+00	6.057E-08
G	7.9	0.55	90000.	0.	112.	1000.0	46.0	0.0	0.000E+00	0.000E+00	4.541E-08
G	9.8	0.06	90000.	0.	112.	1000.0	46.0	0.0	0.000E+00	0.000E+00	3.634E-08

USNRC COMPUTER CODE-PAVAN, VERSION 2.0

RUN DATE: 03/14/07

PLANT NAME: Oyster Creek  
 DATA PERIOD:  
 TYPE OF RELEASE: Elevated Release  
 SOURCE OF DATA:  
 COMMENTS: Oyster Creek, Elevated Release, Stack, 1995-1999 met data  
 PROGRAM: PAVAN, 10/76, 8/79 REVISION, IMPLEMENTATION OF REGULATORY GUIDE 1.145

METEOROLOGICAL INSTRUMENTATION  
 WIND SENSORS HEIGHT: 112 meters  
 DELTA-T HEIGHTS: 10.1-115.8 meters

LOW POPULATION ZONE CALCULATIONS:

W SECTOR BOUNDARY DISTANCE = 3218.0 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.

1.363E-05	9.048E-06	7.543E-06	7.513E-06	5.657E-06	4.665E-06	4.526E-06	4.035E-06	3.772E-06	3.756E-06
0.091	0.125	0.186	0.248	0.494	0.497	0.928	0.948	1.071	1.132
0.00338	0.00463	0.00691	0.00920	0.01834	0.01849	0.03449	0.03522	0.03979	0.04208
3.005E-06	2.835E-06	2.504E-06	2.415E-06	1.889E-06	1.882E-06	1.675E-06	1.609E-06	1.416E-06	1.254E-06
1.317	2.609	2.978	3.101	8.884	9.376	9.499	9.807	19.034	21.249
0.04894	0.09694	0.11066	0.11523	0.33011	0.34840	0.35297	0.36440	0.70730	0.78959
1.206E-06	1.134E-06	9.656E-07	9.443E-07	9.402E-07	8.741E-07	8.395E-07	8.045E-07	7.526E-07	7.080E-07
23.279	32.815	35.952	44.196	46.041	46.109	46.171	48.324	51.092	60.136
0.86503	1.21936	1.33594	1.64226	1.71084	1.71337	1.71565	1.79566	1.89853	2.23457
6.466E-07	6.270E-07	6.031E-07	5.665E-07	5.592E-07	4.848E-07	4.839E-07	4.826E-07	4.701E-07	4.193E-07
60.197	62.473	63.212	70.286	71.086	71.332	71.394	71.455	75.146	76.254
2.23686	2.32144	2.34887	2.61176	2.64147	2.65062	2.65290	2.65519	2.79235	2.83350
3.881E-07	3.761E-07	3.629E-07	3.356E-07	3.233E-07	2.903E-07	2.796E-07	2.424E-07	2.419E-07	2.304E-07
77.607	79.760	79.822	80.868	82.283	82.406	83.328	83.820	83.944	89.603
2.88379	2.96380	2.96608	3.00494	3.05752	3.06209	3.09638	3.11467	3.11924	3.32955
2.096E-07	1.963E-07	1.939E-07	1.819E-07	1.677E-07	1.530E-07	1.481E-07	1.211E-07	1.186E-07	9.879E-08
89.911	90.157	90.341	90.649	90.711	93.417	93.540	94.525	94.955	95.448
3.34098	3.35013	3.35698	3.36841	3.37070	3.47128	3.47586	3.51243	3.52843	3.54672
9.083E-08	7.888E-08	7.406E-08	7.271E-08	6.823E-08	6.057E-08	4.541E-08	3.634E-08	2.410E-08	
96.493	96.616	96.739	97.908	97.970	99.323	99.877	99.938	100.000	
3.58558	3.59015	3.59473	3.63816	3.64045	3.69074	3.71131	3.71360	3.71588	

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 = 3.340E-05      DISTANCE = 800.000

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)= 0.034  
 HANDCHECK GRAPH: SLOPE LT -1.0 FOR LOW PERCENTAGES. XSAVE ( 3)= 0.348  
 HANDCHECK GRAPH: SLOPE LT -1.0 FOR LOW PERCENTAGES. XSAVE ( 4)= 1.218  
 HANDCHECK GRAPH: SLOPE LT -1.0 FOR LOW PERCENTAGES. XSAVE ( 5)= 1.709  
 HANDCHECK GRAPH: SLOPE LT -1.0 FOR LOW PERCENTAGES. XSAVE ( 6)= 2.232  
 HANDCHECK GRAPH: SLOPE LT -1.0 FOR LOW PERCENTAGES. XSAVE ( 7)= 2.639  
 HANDCHECK GRAPH: SLOPE LT -1.0 FOR LOW PERCENTAGES. XSAVE ( 8)= 2.790

K	I	XQSAVE(K, I)	XQINT(K, I)	XQSLOP(K, I)
5	1	-11.20349	-18.63885	-1.86608
5	2	-12.30568	-16.58908	-1.26211
5	3	-13.18295	-16.24313	-1.13392
5	4	-13.69019	-16.84497	-1.40124
5	5	-13.87721	-19.34041	-2.57947
5	6	-14.16087	-20.80707	-3.30989
5	7	-14.39667	-28.36147	-7.21046
5	8	-14.57036	NUMXQ(K)= 8	
		4.410E-06	0.037	1.000
		2.963E-06	0.111	3.000
		2.432E-06	0.186	5.000
		1.837E-06	0.372	10.000
		1.570E-06	0.557	15.000
		1.398E-06	0.743	20.000
		1.274E-06	0.929	25.000
		1.178E-06	1.115	30.000
		1.095E-06	1.301	35.000
		1.017E-06	1.486	40.000
		9.524E-07	1.672	45.000
		8.623E-07	1.858	50.000
		7.794E-07	2.044	55.000
		7.097E-07	2.230	60.000
		6.349E-07	2.415	65.000
		5.717E-07	2.601	70.000
		4.730E-07	2.787	75.000
		1.638E-06	0.5	13.46

ANNUAL AVERAGE = 1.55E-08

K= 5 FIVEXQ(K)= 1.638E-06 FIVEPR(K)=13.456

FUMIGATION X/Q AT THE BOUNDARY: 1.68E-05

EXPONENTIAL TERM AND FREQUENCIES

9.937E-01	9.601E-01	8.190E-01	4.773E-01	2.610E-01	2.388E-01	5.166E-02
1.230	5.110	13.907	18.418	75.229	94.088	100.000

USNRC COMPUTER CODE-PAVAN, VERSION 2.0

RUN DATE: 03/14/07

PLANT NAME: Oyster Creek

METEOROLOGICAL INSTRUMENTATION

DATA PERIOD:

WIND SENSORS HEIGHT: 112 meters

TYPE OF RELEASE: Elevated Release

DELTA-T HEIGHTS: 10.1-115.8 meters

SOURCE OF DATA:

COMMENTS: Oyster Creek, Elevated Release, Stack, 1995-1999 met data

PROGRAM: PAVAN, 10/76, 8/79 REVISION, IMPLEMENTATION OF REGULATORY GUIDE 1.145

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

CLASS	METER/SEC	PERCENT	DISTANCE METERS	TERRAIN METERS	HT EFF METERS	PLUME HT METERS	SIGMA-Y METERS	SIGMA-Z METERS	MEANDER-SY METERS	** CHI/Q VALUES (SEC/CUBIC METER)		
										MEANDER	BLDG WAKE	USED
AT 112.0 METERS												
A	2.0	0.07	3218.	0.	112.	538.2	1000.0	0.0	0.000E+00	0.000E+00	2.966E-07	
A	3.0	0.14	3218.	0.	112.	538.2	1000.0	0.0	0.000E+00	0.000E+00	1.976E-07	
A	4.0	0.27	3218.	0.	112.	538.2	1000.0	0.0	0.000E+00	0.000E+00	1.481E-07	
A	5.0	0.48	3218.	0.	112.	538.2	1000.0	0.0	0.000E+00	0.000E+00	1.186E-07	
A	5.9	0.21	3218.	0.	112.	538.2	1000.0	0.0	0.000E+00	0.000E+00	9.879E-08	
A	7.9	0.21	3218.	0.	112.	538.2	1000.0	0.0	0.000E+00	0.000E+00	7.406E-08	
B	0.4	0.00	3218.	0.	112.	404.8	392.6	0.0	0.000E+00	0.000E+00	4.665E-06	
B	3.0	0.07	3218.	0.	112.	404.8	392.6	0.0	0.000E+00	0.000E+00	6.466E-07	
B	4.0	0.55	3218.	0.	112.	404.8	392.6	0.0	0.000E+00	0.000E+00	4.848E-07	
B	5.0	2.33	3218.	0.	112.	404.8	392.6	0.0	0.000E+00	0.000E+00	3.881E-07	
B	5.9	1.03	3218.	0.	112.	404.8	392.6	0.0	0.000E+00	0.000E+00	3.233E-07	
B	7.9	0.41	3218.	0.	112.	404.8	392.6	0.0	0.000E+00	0.000E+00	2.424E-07	
B	24.4	0.07	3218.	0.	112.	404.8	392.6	0.0	0.000E+00	0.000E+00	7.888E-08	
C	2.0	0.07	3218.	0.	112.	307.4	177.2	0.0	0.000E+00	0.000E+00	2.415E-06	
C	3.0	0.27	3218.	0.	112.	307.4	177.2	0.0	0.000E+00	0.000E+00	1.609E-06	
C	4.0	2.27	3218.	0.	112.	307.4	177.2	0.0	0.000E+00	0.000E+00	1.206E-06	
C	5.0	3.09	3218.	0.	112.	307.4	177.2	0.0	0.000E+00	0.000E+00	9.656E-07	
C	5.9	1.44	3218.	0.	112.	307.4	177.2	0.0	0.000E+00	0.000E+00	8.045E-07	
C	7.9	0.69	3218.	0.	112.	307.4	177.2	0.0	0.000E+00	0.000E+00	6.031E-07	
C	24.4	0.07	3218.	0.	112.	307.4	177.2	0.0	0.000E+00	0.000E+00	1.963E-07	
D	0.4	0.08	3218.	0.	112.	216.4	68.3	0.0	0.000E+00	0.000E+00	1.363E-05	
D	1.0	0.34	3218.	0.	112.	216.4	68.3	0.0	0.000E+00	0.000E+00	5.657E-06	
D	1.2	0.34	3218.	0.	112.	216.4	68.3	0.0	0.000E+00	0.000E+00	4.526E-06	
D	1.5	0.76	3218.	0.	112.	216.4	68.3	0.0	0.000E+00	0.000E+00	3.772E-06	
D	2.0	1.30	3218.	0.	112.	216.4	68.3	0.0	0.000E+00	0.000E+00	2.835E-06	
D	3.0	7.96	3218.	0.	112.	216.4	68.3	0.0	0.000E+00	0.000E+00	1.889E-06	
D	4.0	13.59	3218.	0.	112.	216.4	68.3	0.0	0.000E+00	0.000E+00	1.416E-06	
D	5.0	10.30	3218.	0.	112.	216.4	68.3	0.0	0.000E+00	0.000E+00	1.134E-06	
D	5.9	6.59	3218.	0.	112.	216.4	68.3	0.0	0.000E+00	0.000E+00	9.443E-07	
D	7.9	7.34	3218.	0.	112.	216.4	68.3	0.0	0.000E+00	0.000E+00	7.080E-07	
D	9.9	3.02	3218.	0.	112.	216.4	68.3	0.0	0.000E+00	0.000E+00	5.665E-07	
D	24.4	4.12	3218.	0.	112.	216.4	68.3	0.0	0.000E+00	0.000E+00	2.304E-07	
E	0.4	0.03	7000.	0.	112.	310.5	66.2	0.0	0.000E+00	0.000E+00	9.048E-06	
E	0.7	0.07	7000.	0.	112.	310.5	66.2	0.0	0.000E+00	0.000E+00	5.009E-06	
E	1.0	0.14	7000.	0.	112.	310.5	66.2	0.0	0.000E+00	0.000E+00	3.756E-06	
E	1.2	0.07	7000.	0.	112.	310.5	66.2	0.0	0.000E+00	0.000E+00	3.005E-06	
E	1.5	0.27	7000.	0.	112.	310.5	66.2	0.0	0.000E+00	0.000E+00	2.504E-06	
E	2.0	0.82	7000.	0.	112.	310.5	66.2	0.0	0.000E+00	0.000E+00	1.882E-06	
E	3.0	2.20	7000.	0.	112.	310.5	66.2	0.0	0.000E+00	0.000E+00	1.254E-06	



E	3.9	2.95	7000.	0.	112.	310.5	66.2	0.0	0.000E+00	0.000E+00	9.402E-07
E	4.9	2.47	7000.	0.	112.	310.5	66.2	0.0	0.000E+00	0.000E+00	7.526E-07
E	5.9	2.61	7000.	0.	112.	310.5	66.2	0.0	0.000E+00	0.000E+00	6.270E-07
E	7.9	2.75	7000.	0.	112.	310.5	66.2	0.0	0.000E+00	0.000E+00	4.701E-07
E	9.8	1.51	7000.	0.	112.	310.5	66.2	0.0	0.000E+00	0.000E+00	3.761E-07
E	24.2	2.27	7000.	0.	112.	310.5	66.2	0.0	0.000E+00	0.000E+00	1.530E-07
F	0.4	0.04	90000.	0.	112.	1000.0	92.1	0.0	0.000E+00	0.000E+00	4.035E-06
F	0.7	0.14	90000.	0.	112.	1000.0	92.1	0.0	0.000E+00	0.000E+00	2.234E-06
F	1.2	0.14	90000.	0.	112.	1000.0	92.1	0.0	0.000E+00	0.000E+00	1.340E-06
F	1.5	0.21	90000.	0.	112.	1000.0	92.1	0.0	0.000E+00	0.000E+00	1.117E-06
F	2.0	0.14	90000.	0.	112.	1000.0	92.1	0.0	0.000E+00	0.000E+00	8.395E-07
F	3.0	1.17	90000.	0.	112.	1000.0	92.1	0.0	0.000E+00	0.000E+00	5.592E-07
F	3.9	1.44	90000.	0.	112.	1000.0	92.1	0.0	0.000E+00	0.000E+00	4.193E-07
F	4.9	0.69	90000.	0.	112.	1000.0	92.1	0.0	0.000E+00	0.000E+00	3.356E-07
F	5.9	0.76	90000.	0.	112.	1000.0	92.1	0.0	0.000E+00	0.000E+00	2.796E-07
F	7.9	0.41	90000.	0.	112.	1000.0	92.1	0.0	0.000E+00	0.000E+00	2.096E-07
F	9.8	0.07	90000.	0.	112.	1000.0	92.1	0.0	0.000E+00	0.000E+00	1.677E-07
G	0.4	0.04	90000.	0.	112.	1000.0	46.0	0.0	0.000E+00	0.000E+00	8.741E-07
G	1.2	0.14	90000.	0.	112.	1000.0	46.0	0.0	0.000E+00	0.000E+00	2.903E-07
G	1.5	0.27	90000.	0.	112.	1000.0	46.0	0.0	0.000E+00	0.000E+00	2.419E-07
G	2.0	0.62	90000.	0.	112.	1000.0	46.0	0.0	0.000E+00	0.000E+00	1.819E-07
G	3.0	1.78	90000.	0.	112.	1000.0	46.0	0.0	0.000E+00	0.000E+00	1.211E-07
G	3.9	1.85	90000.	0.	112.	1000.0	46.0	0.0	0.000E+00	0.000E+00	9.083E-08
G	4.9	1.44	90000.	0.	112.	1000.0	46.0	0.0	0.000E+00	0.000E+00	7.271E-08
G	5.9	0.76	90000.	0.	112.	1000.0	46.0	0.0	0.000E+00	0.000E+00	6.057E-08
G	7.9	0.21	90000.	0.	112.	1000.0	46.0	0.0	0.000E+00	0.000E+00	4.541E-08
G	9.8	0.07	90000.	0.	112.	1000.0	46.0	0.0	0.000E+00	0.000E+00	3.634E-08

USNRC COMPUTER CODE-PAVAN, VERSION 2.0

RUN DATE: 03/14/07

PLANT NAME: Oyster Creek

METEOROLOGICAL INSTRUMENTATION

DATA PERIOD:

WIND SENSORS HEIGHT: 112 meters

TYPE OF RELEASE: Elevated Release

DELTA-T HEIGHTS: 10.1-115.8 meters

SOURCE OF DATA:

COMMENTS: Oyster Creek, Elevated Release, Stack, 1995-1999 met data

PROGRAM: PAVAN, 10/76, 8/79 REVISION, IMPLEMENTATION OF REGULATORY GUIDE 1.145

LOW POPULATION ZONE CALCULATIONS:

WNW SECTOR BOUNDARY DISTANCE = 3218.0 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.

1.363E-05	9.048E-06	5.657E-06	5.009E-06	4.665E-06	4.526E-06	4.035E-06	3.772E-06	3.756E-06	3.005E-06
0.085	0.115	0.458	0.526	0.531	0.874	0.918	1.673	1.810	1.879
0.00282	0.00381	0.01524	0.01753	0.01767	0.02910	0.03057	0.05572	0.06029	0.06258
2.835E-06	2.504E-06	2.415E-06	2.234E-06	1.889E-06	1.882E-06	1.609E-06	1.416E-06	1.340E-06	1.254E-06
3.183	3.458	3.526	3.663	11.625	12.449	12.724	26.314	26.451	28.648
0.10601	0.11515	0.11744	0.12201	0.38718	0.41462	0.42376	0.87638	0.88096	0.95411
1.206E-06	1.134E-06	1.117E-06	9.656E-07	9.443E-07	9.402E-07	8.741E-07	8.395E-07	8.045E-07	7.526E-07
30.913	41.208	41.414	44.503	51.092	54.043	54.081	54.219	55.660	58.131
1.02954	1.37244	1.37930	1.48217	1.70162	1.79992	1.80118	1.80575	1.85376	1.93605
7.080E-07	6.466E-07	6.270E-07	6.031E-07	5.665E-07	5.592E-07	4.848E-07	4.701E-07	4.193E-07	3.881E-07
65.475	65.544	68.152	68.839	71.859	73.025	73.575	76.320	77.761	80.095
2.18065	2.18294	2.26981	2.29267	2.39325	2.43211	2.45040	2.54184	2.58984	2.66757
3.761E-07	3.356E-07	3.233E-07	2.966E-07	2.903E-07	2.796E-07	2.424E-07	2.419E-07	2.304E-07	2.096E-07
81.605	82.291	83.321	83.390	83.527	84.282	84.694	84.968	89.087	89.498
2.71786	2.74072	2.77501	2.77729	2.78186	2.80701	2.82073	2.82987	2.96703	2.98074
1.976E-07	1.963E-07	1.819E-07	1.677E-07	1.530E-07	1.481E-07	1.211E-07	1.186E-07	9.879E-08	9.083E-08
89.636	89.704	90.322	90.391	92.656	92.930	94.715	95.195	95.401	97.254
2.98532	2.98760	3.00818	3.01046	3.08590	3.09504	3.15448	3.17048	3.17734	3.23906
7.888E-08	7.406E-08	7.271E-08	6.057E-08	4.541E-08	3.634E-08				
97.323	97.529	98.970	99.725	99.931	100.000				
3.24134	3.24820	3.29621	3.32135	3.32821	3.33050				

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 = 3.340E-05      DISTANCE = 800.000

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)= 0.060  
 HANDCHECK GRAPH: SLOPE LT -1.0 FOR LOW PERCENTAGES. XSAVE ( 3)= 0.875  
 HANDCHECK GRAPH: SLOPE LT -1.0 FOR LOW PERCENTAGES. XSAVE ( 4)= 1.371  
 HANDCHECK GRAPH: SLOPE LT -1.0 FOR LOW PERCENTAGES. XSAVE ( 5)= 1.798  
 HANDCHECK GRAPH: SLOPE LT -1.0 FOR LOW PERCENTAGES. XSAVE ( 6)= 2.178  
 HANDCHECK GRAPH: SLOPE LT -1.0 FOR LOW PERCENTAGES. XSAVE ( 7)= 2.430  
 HANDCHECK GRAPH: SLOPE LT -1.0 FOR LOW PERCENTAGES. XSAVE ( 8)= 2.715

K	I	XQSAVE(K,I)	XQINT(K,I)	XQSLOP(K,I)
6	1	-11.20349	-17.77439	-1.63149
6	2	-12.49203	-16.15734	-1.13205
6	3	-13.46772	-16.57033	-1.30588
6	4	-13.69019	-17.50479	-1.72957
6	5	-13.87721	-21.39277	-3.58329
6	6	-14.16087	-24.48871	-5.11728
6	7	-14.39667	-30.78007	-8.30739
6	8	-14.79328	NUMXQ(K)= 8	
		4.922E-06	0.033	1.000
		3.181E-06	0.100	3.000
		2.669E-06	0.167	5.000
		2.076E-06	0.333	10.000
		1.777E-06	0.500	15.000
		1.585E-06	0.666	20.000
		1.446E-06	0.833	25.000
		1.329E-06	0.999	30.000
		1.231E-06	1.166	35.000
		1.151E-06	1.332	40.000
		1.068E-06	1.499	45.000
		9.927E-07	1.665	50.000
		9.164E-07	1.832	55.000
		8.064E-07	1.998	60.000
		7.157E-07	2.165	65.000
		6.131E-07	2.331	70.000
		5.088E-07	2.498	75.000
		4.040E-07	2.664	80.000
		1.776E-06	0.5	15.01

ANNUAL AVERAGE = 1.52E-08

K= 6 FIVEXQ(K)= 1.776E-06 FIVEPR(K)=15.013

FUMIGATION X/Q AT THE BOUNDARY: 1.68E-05

EXPONENTIAL TERM AND FREQUENCIES

9.937E-01	9.601E-01	8.190E-01	4.773E-01	2.610E-01	2.388E-01	5.166E-02
1.373	5.838	13.732	18.924	74.674	92.824	100.000

USNRC COMPUTER CODE-PAVAN, VERSION 2.0

RUN DATE: 03/14/07

PLANT NAME: Oyster Creek

METEOROLOGICAL INSTRUMENTATION

DATA PERIOD:

WIND SENSORS HEIGHT: 112 meters

TYPE OF RELEASE: Elevated Release

DELTA-T HEIGHTS: 10.1-115.8 meters

SOURCE OF DATA:

COMMENTS: Oyster Creek, Elevated Release, Stack, 1995-1999 met data

PROGRAM: PAVAN, 10/76, 8/79 REVISION, IMPLEMENTATION OF REGULATORY GUIDE 1.145

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

CLASS	METER/SEC	PERCENT	METERS	METERS	METERS	SIGMA-Y METERS	SIGMA-Z METERS	MEANDER-SY METERS	** CHI/Q VALUES (SEC/CUBIC METER)		
									MEANDER	BLDG WAKE	USED
									CA= 957.SQ.METERS		
AT 112.0 METERS											
A	1.2	0.06	3218.	0.	112.	538.2	1000.0	0.0	0.000E+00	0.000E+00	4.735E-07
A	3.0	0.06	3218.	0.	112.	538.2	1000.0	0.0	0.000E+00	0.000E+00	1.976E-07
A	4.0	0.06	3218.	0.	112.	538.2	1000.0	0.0	0.000E+00	0.000E+00	1.481E-07
A	5.0	0.24	3218.	0.	112.	538.2	1000.0	0.0	0.000E+00	0.000E+00	1.186E-07
A	5.9	0.66	3218.	0.	112.	538.2	1000.0	0.0	0.000E+00	0.000E+00	9.879E-08
A	7.9	0.60	3218.	0.	112.	538.2	1000.0	0.0	0.000E+00	0.000E+00	7.406E-08
B	0.4	0.00	3218.	0.	112.	404.8	392.6	0.0	0.000E+00	0.000E+00	4.665E-06
B	3.0	0.06	3218.	0.	112.	404.8	392.6	0.0	0.000E+00	0.000E+00	6.466E-07
B	4.0	0.24	3218.	0.	112.	404.8	392.6	0.0	0.000E+00	0.000E+00	4.848E-07
B	5.0	1.68	3218.	0.	112.	404.8	392.6	0.0	0.000E+00	0.000E+00	3.881E-07
B	5.9	1.38	3218.	0.	112.	404.8	392.6	0.0	0.000E+00	0.000E+00	3.233E-07
B	7.9	1.02	3218.	0.	112.	404.8	392.6	0.0	0.000E+00	0.000E+00	2.424E-07
B	9.9	0.06	3218.	0.	112.	404.8	392.6	0.0	0.000E+00	0.000E+00	1.939E-07
C	2.0	0.12	3218.	0.	112.	307.4	177.2	0.0	0.000E+00	0.000E+00	2.415E-06
C	3.0	0.24	3218.	0.	112.	307.4	177.2	0.0	0.000E+00	0.000E+00	1.609E-06
C	4.0	1.50	3218.	0.	112.	307.4	177.2	0.0	0.000E+00	0.000E+00	1.206E-06
C	5.0	3.65	3218.	0.	112.	307.4	177.2	0.0	0.000E+00	0.000E+00	9.656E-07
C	5.9	2.99	3218.	0.	112.	307.4	177.2	0.0	0.000E+00	0.000E+00	8.045E-07
C	7.9	1.92	3218.	0.	112.	307.4	177.2	0.0	0.000E+00	0.000E+00	6.031E-07
C	9.9	0.06	3218.	0.	112.	307.4	177.2	0.0	0.000E+00	0.000E+00	4.826E-07
D	0.4	0.12	3218.	0.	112.	216.4	68.3	0.0	0.000E+00	0.000E+00	1.363E-05
D	0.7	0.24	3218.	0.	112.	216.4	68.3	0.0	0.000E+00	0.000E+00	7.543E-06
D	1.0	0.42	3218.	0.	112.	216.4	68.3	0.0	0.000E+00	0.000E+00	5.657E-06
D	1.2	0.30	3218.	0.	112.	216.4	68.3	0.0	0.000E+00	0.000E+00	4.526E-06
D	1.5	0.72	3218.	0.	112.	216.4	68.3	0.0	0.000E+00	0.000E+00	3.772E-06
D	2.0	0.96	3218.	0.	112.	216.4	68.3	0.0	0.000E+00	0.000E+00	2.835E-06
D	3.0	6.22	3218.	0.	112.	216.4	68.3	0.0	0.000E+00	0.000E+00	1.889E-06
D	4.0	12.03	3218.	0.	112.	216.4	68.3	0.0	0.000E+00	0.000E+00	1.416E-06
D	5.0	11.73	3218.	0.	112.	216.4	68.3	0.0	0.000E+00	0.000E+00	1.134E-06
D	5.9	7.42	3218.	0.	112.	216.4	68.3	0.0	0.000E+00	0.000E+00	9.443E-07
D	7.9	7.24	3218.	0.	112.	216.4	68.3	0.0	0.000E+00	0.000E+00	7.080E-07
D	9.9	1.26	3218.	0.	112.	216.4	68.3	0.0	0.000E+00	0.000E+00	5.665E-07
D	24.4	4.31	3218.	0.	112.	216.4	68.3	0.0	0.000E+00	0.000E+00	2.304E-07
E	0.4	0.06	7000.	0.	112.	310.5	66.2	0.0	0.000E+00	0.000E+00	9.048E-06
E	0.7	0.06	7000.	0.	112.	310.5	66.2	0.0	0.000E+00	0.000E+00	5.009E-06
E	1.0	0.30	7000.	0.	112.	310.5	66.2	0.0	0.000E+00	0.000E+00	3.756E-06
E	1.2	0.18	7000.	0.	112.	310.5	66.2	0.0	0.000E+00	0.000E+00	3.005E-06
E	1.5	0.36	7000.	0.	112.	310.5	66.2	0.0	0.000E+00	0.000E+00	2.504E-06
E	2.0	0.60	7000.	0.	112.	310.5	66.2	0.0	0.000E+00	0.000E+00	1.882E-06

E	3.0	2.15	7000.	0.	112.	310.5	66.2	0.0	0.000E+00	0.000E+00	1.254E-06
E	3.9	2.03	7000.	0.	112.	310.5	66.2	0.0	0.000E+00	0.000E+00	9.402E-07
E	4.9	2.63	7000.	0.	112.	310.5	66.2	0.0	0.000E+00	0.000E+00	7.526E-07
E	5.9	2.69	7000.	0.	112.	310.5	66.2	0.0	0.000E+00	0.000E+00	6.270E-07
E	7.9	2.27	7000.	0.	112.	310.5	66.2	0.0	0.000E+00	0.000E+00	4.701E-07
E	9.8	1.56	7000.	0.	112.	310.5	66.2	0.0	0.000E+00	0.000E+00	3.761E-07
E	24.2	4.91	7000.	0.	112.	310.5	66.2	0.0	0.000E+00	0.000E+00	1.530E-07
F	0.4	0.06	90000.	0.	112.	1000.0	92.1	0.0	0.000E+00	0.000E+00	4.035E-06
F	0.5	0.06	90000.	0.	112.	1000.0	92.1	0.0	0.000E+00	0.000E+00	3.350E-06
F	0.7	0.12	90000.	0.	112.	1000.0	92.1	0.0	0.000E+00	0.000E+00	2.234E-06
F	1.2	0.18	90000.	0.	112.	1000.0	92.1	0.0	0.000E+00	0.000E+00	1.340E-06
F	2.0	0.18	90000.	0.	112.	1000.0	92.1	0.0	0.000E+00	0.000E+00	8.395E-07
F	3.0	0.72	90000.	0.	112.	1000.0	92.1	0.0	0.000E+00	0.000E+00	5.592E-07
F	3.9	1.08	90000.	0.	112.	1000.0	92.1	0.0	0.000E+00	0.000E+00	4.193E-07
F	4.9	1.02	90000.	0.	112.	1000.0	92.1	0.0	0.000E+00	0.000E+00	3.356E-07
F	5.9	0.72	90000.	0.	112.	1000.0	92.1	0.0	0.000E+00	0.000E+00	2.796E-07
F	7.9	0.66	90000.	0.	112.	1000.0	92.1	0.0	0.000E+00	0.000E+00	2.096E-07
F	9.8	0.36	90000.	0.	112.	1000.0	92.1	0.0	0.000E+00	0.000E+00	1.677E-07
F	24.2	0.18	90000.	0.	112.	1000.0	92.1	0.0	0.000E+00	0.000E+00	6.823E-08
G	0.4	0.05	90000.	0.	112.	1000.0	46.0	0.0	0.000E+00	0.000E+00	8.741E-07
G	1.0	0.12	90000.	0.	112.	1000.0	46.0	0.0	0.000E+00	0.000E+00	3.629E-07
G	1.2	0.06	90000.	0.	112.	1000.0	46.0	0.0	0.000E+00	0.000E+00	2.903E-07
G	1.5	0.12	90000.	0.	112.	1000.0	46.0	0.0	0.000E+00	0.000E+00	2.419E-07
G	2.0	0.18	90000.	0.	112.	1000.0	46.0	0.0	0.000E+00	0.000E+00	1.819E-07
G	3.0	1.14	90000.	0.	112.	1000.0	46.0	0.0	0.000E+00	0.000E+00	1.211E-07
G	3.9	1.14	90000.	0.	112.	1000.0	46.0	0.0	0.000E+00	0.000E+00	9.083E-08
G	4.9	1.02	90000.	0.	112.	1000.0	46.0	0.0	0.000E+00	0.000E+00	7.271E-08
G	5.9	1.08	90000.	0.	112.	1000.0	46.0	0.0	0.000E+00	0.000E+00	6.057E-08
G	7.9	0.42	90000.	0.	112.	1000.0	46.0	0.0	0.000E+00	0.000E+00	4.541E-08

USNRC COMPUTER CODE-PAVAN, VERSION 2.0

RUN DATE: 03/14/07

PLANT NAME: Oyster Creek

METEOROLOGICAL INSTRUMENTATION

DATA PERIOD:

WIND SENSORS HEIGHT: 112 meters

TYPE OF RELEASE: Elevated Release

DELTA-T HEIGHTS: 10.1-115.8 meters

SOURCE OF DATA:

COMMENTS: Oyster Creek, Elevated Release, Stack, 1995-1999 met data

PROGRAM: PAVAN, 10/76, 8/79 REVISION, IMPLEMENTATION OF REGULATORY GUIDE 1.145

LOW POPULATION ZONE CALCULATIONS:

NW SECTOR BOUNDARY DISTANCE = 3218.0 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.

1.363E-05	9.048E-06	7.543E-06	5.657E-06	5.009E-06	4.665E-06	4.526E-06	4.035E-06	3.772E-06	3.756E-06
0.118	0.177	0.416	0.835	0.895	0.899	1.198	1.256	1.974	2.273
0.00451	0.00675	0.01589	0.03190	0.03418	0.03432	0.04575	0.04796	0.07539	0.08682
3.350E-06	3.005E-06	2.835E-06	2.504E-06	2.415E-06	2.234E-06	1.889E-06	1.882E-06	1.609E-06	1.416E-06
2.333	2.513	3.470	3.829	3.949	4.069	10.293	10.892	11.131	23.161
0.08911	0.09596	0.13254	0.14626	0.15083	0.15540	0.39314	0.41600	0.42514	0.88463
1.340E-06	1.254E-06	1.206E-06	1.134E-06	9.656E-07	9.443E-07	9.402E-07	8.741E-07	8.395E-07	8.045E-07
23.341	25.495	26.992	38.723	42.373	49.795	51.830	51.880	52.059	55.052
0.89148	0.97378	1.03093	1.47898	1.61842	1.90189	1.97961	1.98150	1.98836	2.10266
7.526E-07	7.080E-07	6.466E-07	6.270E-07	6.031E-07	5.665E-07	5.592E-07	4.848E-07	4.826E-07	4.735E-07
57.685	64.927	64.987	67.680	69.596	70.852	71.571	71.810	71.870	71.930
2.20324	2.47985	2.48213	2.58500	2.65815	2.70616	2.73359	2.74273	2.74502	2.74730
4.701E-07	4.193E-07	3.881E-07	3.761E-07	3.629E-07	3.356E-07	3.233E-07	2.903E-07	2.796E-07	2.424E-07
74.204	75.281	76.957	78.513	78.633	79.651	81.027	81.087	81.805	82.823
2.83417	2.87532	2.93933	2.99876	3.00333	3.04220	3.09477	3.09706	3.12449	3.16335
2.419E-07	2.304E-07	2.096E-07	1.976E-07	1.939E-07	1.819E-07	1.677E-07	1.530E-07	1.481E-07	1.211E-07
82.942	87.252	87.910	87.970	88.030	88.209	88.568	93.476	93.536	94.673
3.16792	3.33251	3.35766	3.35995	3.36223	3.36909	3.38281	3.57026	3.57254	3.61598
1.186E-07	9.879E-08	9.083E-08	7.406E-08	7.271E-08	6.823E-08	6.057E-08	4.541E-08		
94.913	95.571	96.708	97.307	98.324	98.504	99.581	100.000		
3.62512	3.65026	3.69370	3.71656	3.75542	3.76228	3.80343	3.81943		

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 = 3.340E-05 DISTANCE = 800.000

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)= 0.087  
 HANDCHECK GRAPH: SLOPE LT -1.0 FOR LOW PERCENTAGES. XSAVE ( 3)= 0.416  
 HANDCHECK GRAPH: SLOPE LT -1.0 FOR LOW PERCENTAGES. XSAVE ( 4)= 0.884  
 HANDCHECK GRAPH: SLOPE LT -1.0 FOR LOW PERCENTAGES. XSAVE ( 5)= 1.477  
 HANDCHECK GRAPH: SLOPE LT -1.0 FOR LOW PERCENTAGES. XSAVE ( 6)= 1.977  
 HANDCHECK GRAPH: SLOPE LT -1.0 FOR LOW PERCENTAGES. XSAVE ( 7)= 2.477  
 HANDCHECK GRAPH: SLOPE LT -1.0 FOR LOW PERCENTAGES. XSAVE ( 8)= 2.656  
 HANDCHECK GRAPH: SLOPE LT -1.0 FOR LOW PERCENTAGES. XSAVE ( 9)= 2.731

K	I	XQSAVE(K, I)	XQINT(K, I)	XQSLOP(K, I)
7	1	-11.20349	-17.64403	-1.64483
7	2	-12.49203	-16.88127	-1.40131
7	3	-13.18295	-16.00024	-1.06748
7	4	-13.46772	-16.15638	-1.13330
7	5	-13.69019	-17.14795	-1.58896
7	6	-13.87721	-20.05171	-2.99963
7	7	-14.16087	-24.71164	-5.37248
7	8	-14.32115	-26.37275	-6.23137
7	9	-14.39667	NUMXQ(K)= 9	
		5.516E-06	0.038	1.000
		3.347E-06	0.115	3.000
		2.687E-06	0.191	5.000
		1.960E-06	0.382	10.000
		1.673E-06	0.573	15.000
		1.500E-06	0.764	20.000
		1.371E-06	0.955	25.000
		1.268E-06	1.146	30.000
		1.186E-06	1.337	35.000
		1.111E-06	1.528	40.000
		1.030E-06	1.719	45.000
		9.625E-07	1.910	50.000
		8.733E-07	2.101	55.000
		7.828E-07	2.292	60.000
		7.061E-07	2.483	65.000
		5.938E-07	2.674	70.000
		1.760E-06	0.5	13.09

ANNUAL AVERAGE = 1.74E-08

K= 7 FIVEXQ(K)= 1.760E-06 FIVEPR(K)=13.091

FUMIGATION X/Q AT THE BOUNDARY: 1.68E-05

EXPONENTIAL TERM AND FREQUENCIES

9.937E-01	9.601E-01	8.190E-01	4.773E-01	2.610E-01	2.388E-01	5.166E-02
1.676	6.109	16.583	21.907	74.874	94.683	100.000

USNRC COMPUTER CODE-PAVAN, VERSION 2.0

RUN DATE: 03/14/07

PLANT NAME: Oyster Creek

METEOROLOGICAL INSTRUMENTATION

DATA PERIOD:

WIND SENSORS HEIGHT: 112 meters

TYPE OF RELEASE: Elevated Release

DELTA-T HEIGHTS: 10.1-115.8 meters

SOURCE OF DATA:

COMMENTS: Oyster Creek, Elevated Release, Stack, 1995-1999 met data

PROGRAM: PAVAN, 10/76, 8/79 REVISION, IMPLEMENTATION OF REGULATORY GUIDE 1.145

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

CLASS	METER/SEC	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	USED	
AT 112.0 METERS												
CA= 957.SQ.METERS												
A	3.0	0.11	3218.	0.	112.	538.2	1000.0	0.0	0.000E+00	0.000E+00	1.976E-07	
A	5.0	0.11	3218.	0.	112.	538.2	1000.0	0.0	0.000E+00	0.000E+00	1.186E-07	
A	5.9	0.43	3218.	0.	112.	538.2	1000.0	0.0	0.000E+00	0.000E+00	9.879E-08	
A	7.9	0.69	3218.	0.	112.	538.2	1000.0	0.0	0.000E+00	0.000E+00	7.406E-08	
A	9.9	0.21	3218.	0.	112.	538.2	1000.0	0.0	0.000E+00	0.000E+00	5.926E-08	
B	0.4	0.00	3218.	0.	112.	404.8	392.6	0.0	0.000E+00	0.000E+00	4.665E-06	
B	2.0	0.05	3218.	0.	112.	404.8	392.6	0.0	0.000E+00	0.000E+00	9.706E-07	
B	3.0	0.16	3218.	0.	112.	404.8	392.6	0.0	0.000E+00	0.000E+00	6.466E-07	
B	4.0	0.16	3218.	0.	112.	404.8	392.6	0.0	0.000E+00	0.000E+00	4.848E-07	
B	5.0	0.32	3218.	0.	112.	404.8	392.6	0.0	0.000E+00	0.000E+00	3.881E-07	
B	5.9	1.55	3218.	0.	112.	404.8	392.6	0.0	0.000E+00	0.000E+00	3.233E-07	
B	7.9	2.19	3218.	0.	112.	404.8	392.6	0.0	0.000E+00	0.000E+00	2.424E-07	
B	9.9	0.16	3218.	0.	112.	404.8	392.6	0.0	0.000E+00	0.000E+00	1.939E-07	
B	24.4	0.05	3218.	0.	112.	404.8	392.6	0.0	0.000E+00	0.000E+00	7.888E-08	
C	4.0	0.27	3218.	0.	112.	307.4	177.2	0.0	0.000E+00	0.000E+00	1.206E-06	
C	5.0	1.18	3218.	0.	112.	307.4	177.2	0.0	0.000E+00	0.000E+00	9.656E-07	
C	5.9	2.62	3218.	0.	112.	307.4	177.2	0.0	0.000E+00	0.000E+00	8.045E-07	
C	7.9	2.94	3218.	0.	112.	307.4	177.2	0.0	0.000E+00	0.000E+00	6.031E-07	
C	9.9	0.27	3218.	0.	112.	307.4	177.2	0.0	0.000E+00	0.000E+00	4.826E-07	
D	0.4	0.07	3218.	0.	112.	216.4	68.3	0.0	0.000E+00	0.000E+00	1.363E-05	
D	0.7	0.11	3218.	0.	112.	216.4	68.3	0.0	0.000E+00	0.000E+00	7.543E-06	
D	1.0	0.16	3218.	0.	112.	216.4	68.3	0.0	0.000E+00	0.000E+00	5.657E-06	
D	1.2	0.27	3218.	0.	112.	216.4	68.3	0.0	0.000E+00	0.000E+00	4.526E-06	
D	1.5	0.32	3218.	0.	112.	216.4	68.3	0.0	0.000E+00	0.000E+00	3.772E-06	
D	2.0	0.96	3218.	0.	112.	216.4	68.3	0.0	0.000E+00	0.000E+00	2.835E-06	
D	3.0	2.89	3218.	0.	112.	216.4	68.3	0.0	0.000E+00	0.000E+00	1.889E-06	
D	4.0	9.03	3218.	0.	112.	216.4	68.3	0.0	0.000E+00	0.000E+00	1.416E-06	
D	5.0	11.65	3218.	0.	112.	216.4	68.3	0.0	0.000E+00	0.000E+00	1.134E-06	
D	5.9	10.10	3218.	0.	112.	216.4	68.3	0.0	0.000E+00	0.000E+00	9.443E-07	
D	7.9	7.32	3218.	0.	112.	216.4	68.3	0.0	0.000E+00	0.000E+00	7.080E-07	
D	9.9	2.67	3218.	0.	112.	216.4	68.3	0.0	0.000E+00	0.000E+00	5.665E-07	
D	24.4	2.99	3218.	0.	112.	216.4	68.3	0.0	0.000E+00	0.000E+00	2.304E-07	
E	0.4	0.02	7000.	0.	112.	310.5	66.2	0.0	0.000E+00	0.000E+00	9.048E-06	
E	1.0	0.11	7000.	0.	112.	310.5	66.2	0.0	0.000E+00	0.000E+00	3.756E-06	
E	1.2	0.11	7000.	0.	112.	310.5	66.2	0.0	0.000E+00	0.000E+00	3.005E-06	
E	1.5	0.16	7000.	0.	112.	310.5	66.2	0.0	0.000E+00	0.000E+00	2.504E-06	
E	2.0	0.37	7000.	0.	112.	310.5	66.2	0.0	0.000E+00	0.000E+00	1.882E-06	
E	3.0	1.34	7000.	0.	112.	310.5	66.2	0.0	0.000E+00	0.000E+00	1.254E-06	
E	3.9	3.10	7000.	0.	112.	310.5	66.2	0.0	0.000E+00	0.000E+00	9.402E-07	



E	4.9	3.85	7000.	0.	112.	310.5	66.2	0.0	0.000E+00	0.000E+00	7.526E-07
E	5.9	4.60	7000.	0.	112.	310.5	66.2	0.0	0.000E+00	0.000E+00	6.270E-07
E	7.9	3.26	7000.	0.	112.	310.5	66.2	0.0	0.000E+00	0.000E+00	4.701E-07
E	9.8	2.14	7000.	0.	112.	310.5	66.2	0.0	0.000E+00	0.000E+00	3.761E-07
E	24.2	5.45	7000.	0.	112.	310.5	66.2	0.0	0.000E+00	0.000E+00	1.530E-07
F	0.4	0.02	90000.	0.	112.	1000.0	92.1	0.0	0.000E+00	0.000E+00	4.035E-06
F	1.0	0.05	90000.	0.	112.	1000.0	92.1	0.0	0.000E+00	0.000E+00	1.675E-06
F	1.2	0.05	90000.	0.	112.	1000.0	92.1	0.0	0.000E+00	0.000E+00	1.340E-06
F	1.5	0.11	90000.	0.	112.	1000.0	92.1	0.0	0.000E+00	0.000E+00	1.117E-06
F	2.0	0.21	90000.	0.	112.	1000.0	92.1	0.0	0.000E+00	0.000E+00	8.395E-07
F	3.0	0.80	90000.	0.	112.	1000.0	92.1	0.0	0.000E+00	0.000E+00	5.592E-07
F	3.9	0.80	90000.	0.	112.	1000.0	92.1	0.0	0.000E+00	0.000E+00	4.193E-07
F	4.9	2.03	90000.	0.	112.	1000.0	92.1	0.0	0.000E+00	0.000E+00	3.356E-07
F	5.9	1.18	90000.	0.	112.	1000.0	92.1	0.0	0.000E+00	0.000E+00	2.796E-07
F	7.9	1.28	90000.	0.	112.	1000.0	92.1	0.0	0.000E+00	0.000E+00	2.096E-07
F	9.8	0.43	90000.	0.	112.	1000.0	92.1	0.0	0.000E+00	0.000E+00	1.677E-07
F	24.2	0.64	90000.	0.	112.	1000.0	92.1	0.0	0.000E+00	0.000E+00	6.823E-08
G	0.4	0.04	90000.	0.	112.	1000.0	46.0	0.0	0.000E+00	0.000E+00	8.741E-07
G	0.7	0.05	90000.	0.	112.	1000.0	46.0	0.0	0.000E+00	0.000E+00	4.839E-07
G	1.2	0.11	90000.	0.	112.	1000.0	46.0	0.0	0.000E+00	0.000E+00	2.903E-07
G	1.5	0.11	90000.	0.	112.	1000.0	46.0	0.0	0.000E+00	0.000E+00	2.419E-07
G	2.0	0.05	90000.	0.	112.	1000.0	46.0	0.0	0.000E+00	0.000E+00	1.819E-07
G	3.0	0.86	90000.	0.	112.	1000.0	46.0	0.0	0.000E+00	0.000E+00	1.211E-07
G	3.9	1.87	90000.	0.	112.	1000.0	46.0	0.0	0.000E+00	0.000E+00	9.083E-08
G	4.9	1.39	90000.	0.	112.	1000.0	46.0	0.0	0.000E+00	0.000E+00	7.271E-08
G	5.9	0.48	90000.	0.	112.	1000.0	46.0	0.0	0.000E+00	0.000E+00	6.057E-08
G	7.9	0.80	90000.	0.	112.	1000.0	46.0	0.0	0.000E+00	0.000E+00	4.541E-08
G	9.8	0.11	90000.	0.	112.	1000.0	46.0	0.0	0.000E+00	0.000E+00	3.634E-08

USNRC COMPUTER CODE-PAVAN, VERSION 2.0

RUN DATE: 03/14/07

PLANT NAME: Oyster Creek

METEOROLOGICAL INSTRUMENTATION

DATA PERIOD:

WIND SENSORS HEIGHT: 112 meters

TYPE OF RELEASE: Elevated Release

DELTA-T HEIGHTS: 10.1-115.8 meters

SOURCE OF DATA:

COMMENTS: Oyster Creek, Elevated Release, Stack, 1995-1999 met data

PROGRAM: PAVAN, 10/76, 8/79 REVISION, IMPLEMENTATION OF REGULATORY GUIDE 1.145

LOW POPULATION ZONE CALCULATIONS:

NNW SECTOR BOUNDARY DISTANCE = 3218.0 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.

1.363E-05	9.048E-06	7.543E-06	5.657E-06	4.665E-06	4.526E-06	4.035E-06	3.772E-06	3.756E-06	3.005E-06
0.066	0.089	0.196	0.356	0.360	0.627	0.644	0.965	1.072	1.179
0.00282	0.00381	0.00839	0.01524	0.01539	0.02682	0.02755	0.04127	0.04584	0.05041
2.835E-06	2.504E-06	1.889E-06	1.882E-06	1.675E-06	1.416E-06	1.340E-06	1.254E-06	1.206E-06	1.134E-06
2.141	2.301	5.188	5.562	5.615	14.648	14.702	16.038	16.305	27.958
0.09156	0.09842	0.22186	0.23786	0.24015	0.62648	0.62876	0.68591	0.69734	1.19569
1.117E-06	9.706E-07	9.656E-07	9.443E-07	9.402E-07	8.741E-07	8.395E-07	8.045E-07	7.526E-07	7.080E-07
28.064	28.118	29.294	39.396	42.496	42.540	42.754	45.373	49.222	56.545
1.20026	1.20254	1.25283	1.68488	1.81747	1.81937	1.82851	1.94052	2.10511	2.41829
6.466E-07	6.270E-07	6.031E-07	5.665E-07	5.592E-07	4.848E-07	4.839E-07	4.826E-07	4.701E-07	4.193E-07
56.705	61.302	64.241	66.914	67.716	67.876	67.930	68.197	71.457	72.259
2.42515	2.62174	2.74747	2.86177	2.89606	2.90292	2.90520	2.91663	3.05608	3.09037
3.881E-07	3.761E-07	3.356E-07	3.233E-07	2.903E-07	2.796E-07	2.424E-07	2.419E-07	2.304E-07	2.096E-07
72.580	74.718	76.749	78.299	78.406	79.582	81.773	81.880	84.873	86.156
3.10408	3.19552	3.28239	3.34868	3.35325	3.40355	3.49727	3.50184	3.62986	3.68472
1.976E-07	1.939E-07	1.819E-07	1.677E-07	1.530E-07	1.211E-07	1.186E-07	9.879E-08	9.083E-08	7.888E-08
86.263	86.424	86.477	86.905	92.357	93.212	93.319	93.746	95.617	95.670
3.68929	3.69615	3.69844	3.71673	3.94989	3.98647	3.99104	4.00933	4.08934	4.09162
7.406E-08	7.271E-08	6.823E-08	6.057E-08	5.926E-08	4.541E-08	3.634E-08			
96.365	97.755	98.396	98.878	99.091	99.893	100.000			
4.12134	4.18078	4.20821	4.22878	4.23793	4.27222	4.27679			

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 = 3.340E-05 DISTANCE = 800.000

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)= 0.046  
 HANDCHECK GRAPH: SLOPE LT -1.0 FOR LOW PERCENTAGES. XSAVE ( 3)= 0.626  
 HANDCHECK GRAPH: SLOPE LT -1.0 FOR LOW PERCENTAGES. XSAVE ( 5)= 1.815  
 HANDCHECK GRAPH: SLOPE LT -1.0 FOR LOW PERCENTAGES. XSAVE ( 6)= 2.416  
 HANDCHECK GRAPH: SLOPE LT -1.0 FOR LOW PERCENTAGES. XSAVE ( 7)= 2.745  
 HANDCHECK GRAPH: SLOPE LT -1.0 FOR LOW PERCENTAGES. XSAVE ( 8)= 2.893  
 HANDCHECK GRAPH: SLOPE LT -1.0 FOR LOW PERCENTAGES. XSAVE ( 9)= 3.053

K	I	XQSAVE(K,I)	XQINT(K,I)	XQSLOP(K,I)
8	1	-11.20349	-18.48794	-1.80866
8	2	-12.49203	-16.44702	-1.19302
8	3	-13.46772	-15.79882	-0.93345
8	4	-13.69019	-16.24263	-1.12992
8	5	-13.87721	-18.87287	-2.38634
8	6	-14.16087	-19.92861	-2.92101
8	7	-14.32115	-20.62900	-3.28585
8	8	-14.39667	-28.30665	-7.33372
8	9	-14.57036	NUMXQ(K)= 9	
		3.890E-06	0.043	1.000
		2.628E-06	0.128	3.000
		2.176E-06	0.214	5.000
		1.658E-06	0.428	10.000
		1.405E-06	0.642	15.000
		1.275E-06	0.855	20.000
		1.180E-06	1.069	25.000
		1.099E-06	1.283	30.000
		1.027E-06	1.497	35.000
		9.666E-07	1.711	40.000
		8.891E-07	1.925	45.000
		8.012E-07	2.138	50.000
		7.281E-07	2.352	55.000
		6.574E-07	2.566	60.000
		5.931E-07	2.780	65.000
		5.025E-07	2.994	70.000
		1.556E-06	0.5	11.69

ANNUAL AVERAGE = 1.54E-08

K= 8 FIVEXQ(K)= 1.556E-06 FIVEPR(K)=11.691

FUMIGATION X/Q AT THE BOUNDARY: 1.68E-05

EXPONENTIAL TERM AND FREQUENCIES

9.937E-01	9.601E-01	8.190E-01	4.773E-01	2.610E-01	2.388E-01	5.166E-02
1.550	6.204	13.473	21.080	69.626	94.130	100.000

USNRC COMPUTER CODE-PAVAN, VERSION 2.0

RUN DATE: 03/14/07

PLANT NAME: Oyster Creek

METEOROLOGICAL INSTRUMENTATION

DATA PERIOD:

WIND SENSORS HEIGHT: 112 meters

TYPE OF RELEASE: Elevated Release

DELTA-T HEIGHTS: 10.1-115.8 meters

SOURCE OF DATA:

COMMENTS: Oyster Creek, Elevated Release, Stack, 1995-1999 met data

PROGRAM: PAVAN, 10/76, 8/79 REVISION, IMPLEMENTATION OF REGULATORY GUIDE 1.145

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

CLASS	METER/SEC	PERCENT	METERS	METERS	METERS	SIGMA-Y METERS	SIGMA-Z METERS	MEANDER-SY METERS	** CHI/Q VALUES (SEC/CUBIC METER)		
									MEANDER	BLDG WAKE	USED
AT 112.0 METERS									CA= 957.SQ.METERS		
A	3.0	0.04	3218.	0.	112.	538.2	1000.0	0.0	0.000E+00	0.000E+00	1.976E-07
A	5.0	0.04	3218.	0.	112.	538.2	1000.0	0.0	0.000E+00	0.000E+00	1.186E-07
A	5.9	0.18	3218.	0.	112.	538.2	1000.0	0.0	0.000E+00	0.000E+00	9.879E-08
A	7.9	0.67	3218.	0.	112.	538.2	1000.0	0.0	0.000E+00	0.000E+00	7.406E-08
A	9.9	0.42	3218.	0.	112.	538.2	1000.0	0.0	0.000E+00	0.000E+00	5.926E-08
A	24.4	0.14	3218.	0.	112.	538.2	1000.0	0.0	0.000E+00	0.000E+00	2.410E-08
B	0.4	0.00	3218.	0.	112.	404.8	392.6	0.0	0.000E+00	0.000E+00	4.665E-06
B	2.0	0.04	3218.	0.	112.	404.8	392.6	0.0	0.000E+00	0.000E+00	9.706E-07
B	3.0	0.04	3218.	0.	112.	404.8	392.6	0.0	0.000E+00	0.000E+00	6.466E-07
B	5.0	0.14	3218.	0.	112.	404.8	392.6	0.0	0.000E+00	0.000E+00	3.881E-07
B	5.9	0.60	3218.	0.	112.	404.8	392.6	0.0	0.000E+00	0.000E+00	3.233E-07
B	7.9	1.65	3218.	0.	112.	404.8	392.6	0.0	0.000E+00	0.000E+00	2.424E-07
B	9.9	1.33	3218.	0.	112.	404.8	392.6	0.0	0.000E+00	0.000E+00	1.939E-07
B	24.4	0.32	3218.	0.	112.	404.8	392.6	0.0	0.000E+00	0.000E+00	7.888E-08
C	2.0	0.07	3218.	0.	112.	307.4	177.2	0.0	0.000E+00	0.000E+00	2.415E-06
C	3.0	0.07	3218.	0.	112.	307.4	177.2	0.0	0.000E+00	0.000E+00	1.609E-06
C	4.0	0.14	3218.	0.	112.	307.4	177.2	0.0	0.000E+00	0.000E+00	1.206E-06
C	5.0	0.39	3218.	0.	112.	307.4	177.2	0.0	0.000E+00	0.000E+00	9.656E-07
C	5.9	1.09	3218.	0.	112.	307.4	177.2	0.0	0.000E+00	0.000E+00	8.045E-07
C	7.9	2.98	3218.	0.	112.	307.4	177.2	0.0	0.000E+00	0.000E+00	6.031E-07
C	9.9	0.98	3218.	0.	112.	307.4	177.2	0.0	0.000E+00	0.000E+00	4.826E-07
C	24.4	0.28	3218.	0.	112.	307.4	177.2	0.0	0.000E+00	0.000E+00	1.963E-07
D	0.4	0.03	3218.	0.	112.	216.4	68.3	0.0	0.000E+00	0.000E+00	1.363E-05
D	0.7	0.07	3218.	0.	112.	216.4	68.3	0.0	0.000E+00	0.000E+00	7.543E-06
D	1.2	0.14	3218.	0.	112.	216.4	68.3	0.0	0.000E+00	0.000E+00	4.526E-06
D	1.5	0.25	3218.	0.	112.	216.4	68.3	0.0	0.000E+00	0.000E+00	3.772E-06
D	2.0	0.39	3218.	0.	112.	216.4	68.3	0.0	0.000E+00	0.000E+00	2.835E-06
D	3.0	2.07	3218.	0.	112.	216.4	68.3	0.0	0.000E+00	0.000E+00	1.889E-06
D	4.0	3.89	3218.	0.	112.	216.4	68.3	0.0	0.000E+00	0.000E+00	1.416E-06
D	5.0	7.29	3218.	0.	112.	216.4	68.3	0.0	0.000E+00	0.000E+00	1.134E-06
D	5.9	8.55	3218.	0.	112.	216.4	68.3	0.0	0.000E+00	0.000E+00	9.443E-07
D	7.9	11.89	3218.	0.	112.	216.4	68.3	0.0	0.000E+00	0.000E+00	7.080E-07
D	9.9	6.14	3218.	0.	112.	216.4	68.3	0.0	0.000E+00	0.000E+00	5.665E-07
D	24.4	5.50	3218.	0.	112.	216.4	68.3	0.0	0.000E+00	0.000E+00	2.304E-07
E	0.4	0.02	7000.	0.	112.	310.5	66.2	0.0	0.000E+00	0.000E+00	9.048E-06
E	0.7	0.04	7000.	0.	112.	310.5	66.2	0.0	0.000E+00	0.000E+00	5.009E-06
E	1.0	0.11	7000.	0.	112.	310.5	66.2	0.0	0.000E+00	0.000E+00	3.756E-06
E	1.2	0.04	7000.	0.	112.	310.5	66.2	0.0	0.000E+00	0.000E+00	3.005E-06
E	1.5	0.18	7000.	0.	112.	310.5	66.2	0.0	0.000E+00	0.000E+00	2.504E-06

E	2.0	0.32	7000.	0.	112.	310.5	66.2	0.0	0.000E+00	0.000E+00	1.882E-06
E	3.0	0.95	7000.	0.	112.	310.5	66.2	0.0	0.000E+00	0.000E+00	1.254E-06
E	3.9	1.47	7000.	0.	112.	310.5	66.2	0.0	0.000E+00	0.000E+00	9.402E-07
E	4.9	3.30	7000.	0.	112.	310.5	66.2	0.0	0.000E+00	0.000E+00	7.526E-07
E	5.9	3.82	7000.	0.	112.	310.5	66.2	0.0	0.000E+00	0.000E+00	6.270E-07
E	7.9	7.08	7000.	0.	112.	310.5	66.2	0.0	0.000E+00	0.000E+00	4.701E-07
E	9.8	4.66	7000.	0.	112.	310.5	66.2	0.0	0.000E+00	0.000E+00	3.761E-07
E	24.2	4.35	7000.	0.	112.	310.5	66.2	0.0	0.000E+00	0.000E+00	1.530E-07
F	0.4	0.03	90000.	0.	112.	1000.0	92.1	0.0	0.000E+00	0.000E+00	4.035E-06
F	0.5	0.04	90000.	0.	112.	1000.0	92.1	0.0	0.000E+00	0.000E+00	3.350E-06
F	1.0	0.14	90000.	0.	112.	1000.0	92.1	0.0	0.000E+00	0.000E+00	1.675E-06
F	1.2	0.04	90000.	0.	112.	1000.0	92.1	0.0	0.000E+00	0.000E+00	1.340E-06
F	1.5	0.11	90000.	0.	112.	1000.0	92.1	0.0	0.000E+00	0.000E+00	1.117E-06
F	2.0	0.11	90000.	0.	112.	1000.0	92.1	0.0	0.000E+00	0.000E+00	8.395E-07
F	3.0	0.60	90000.	0.	112.	1000.0	92.1	0.0	0.000E+00	0.000E+00	5.592E-07
F	3.9	1.12	90000.	0.	112.	1000.0	92.1	0.0	0.000E+00	0.000E+00	4.193E-07
F	4.9	1.61	90000.	0.	112.	1000.0	92.1	0.0	0.000E+00	0.000E+00	3.356E-07
F	5.9	1.44	90000.	0.	112.	1000.0	92.1	0.0	0.000E+00	0.000E+00	2.796E-07
F	7.9	1.96	90000.	0.	112.	1000.0	92.1	0.0	0.000E+00	0.000E+00	2.096E-07
F	9.8	0.84	90000.	0.	112.	1000.0	92.1	0.0	0.000E+00	0.000E+00	1.677E-07
F	24.2	0.39	90000.	0.	112.	1000.0	92.1	0.0	0.000E+00	0.000E+00	6.823E-08
G	0.4	0.07	90000.	0.	112.	1000.0	46.0	0.0	0.000E+00	0.000E+00	8.741E-07
G	0.7	0.11	90000.	0.	112.	1000.0	46.0	0.0	0.000E+00	0.000E+00	4.839E-07
G	1.0	0.04	90000.	0.	112.	1000.0	46.0	0.0	0.000E+00	0.000E+00	3.629E-07
G	1.2	0.11	90000.	0.	112.	1000.0	46.0	0.0	0.000E+00	0.000E+00	2.903E-07
G	1.5	0.04	90000.	0.	112.	1000.0	46.0	0.0	0.000E+00	0.000E+00	2.419E-07
G	2.0	0.39	90000.	0.	112.	1000.0	46.0	0.0	0.000E+00	0.000E+00	1.819E-07
G	3.0	1.02	90000.	0.	112.	1000.0	46.0	0.0	0.000E+00	0.000E+00	1.211E-07
G	3.9	1.16	90000.	0.	112.	1000.0	46.0	0.0	0.000E+00	0.000E+00	9.083E-08
G	4.9	1.54	90000.	0.	112.	1000.0	46.0	0.0	0.000E+00	0.000E+00	7.271E-08
G	5.9	1.51	90000.	0.	112.	1000.0	46.0	0.0	0.000E+00	0.000E+00	6.057E-08
G	7.9	1.05	90000.	0.	112.	1000.0	46.0	0.0	0.000E+00	0.000E+00	4.541E-08
G	9.8	0.46	90000.	0.	112.	1000.0	46.0	0.0	0.000E+00	0.000E+00	3.634E-08
G	24.2	0.04	90000.	0.	112.	1000.0	46.0	0.0	0.000E+00	0.000E+00	1.478E-08

USNRC COMPUTER CODE-PAVAN, VERSION 2.0

RUN DATE: 03/14/07

PLANT NAME: Oyster Creek

METEOROLOGICAL INSTRUMENTATION

DATA PERIOD:

WIND SENSORS HEIGHT: 112 meters

TYPE OF RELEASE: Elevated Release

DELTA-T HEIGHTS: 10.1-115.8 meters

SOURCE OF DATA:

COMMENTS: Oyster Creek, Elevated Release, Stack, 1995-1999 met data

PROGRAM: PAVAN, 10/76, 8/79 REVISION, IMPLEMENTATION OF REGULATORY GUIDE 1.145

LOW POPULATION ZONE CALCULATIONS:

N SECTOR BOUNDARY DISTANCE = 3218.0 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.

1.363E-05	9.048E-06	7.543E-06	5.009E-06	4.665E-06	4.526E-06	4.035E-06	3.772E-06	3.756E-06	3.350E-06
0.026	0.045	0.115	0.150	0.152	0.293	0.326	0.572	0.677	0.712
0.00169	0.00294	0.00751	0.00979	0.00994	0.01908	0.02128	0.03729	0.04414	0.04643
3.005E-06	2.835E-06	2.504E-06	2.415E-06	1.889E-06	1.882E-06	1.675E-06	1.609E-06	1.416E-06	1.340E-06
0.747	1.133	1.308	1.378	3.447	3.762	3.903	3.973	7.864	7.899
0.04872	0.07386	0.08529	0.08986	0.22474	0.24531	0.25445	0.25903	0.51277	0.51506
1.254E-06	1.206E-06	1.134E-06	1.117E-06	9.706E-07	9.656E-07	9.443E-07	9.402E-07	8.741E-07	8.395E-07
8.846	8.986	16.279	16.384	16.419	16.805	25.359	26.832	26.900	27.005
0.57678	0.58592	1.06140	1.06826	1.07055	1.09569	1.65347	1.74948	1.75390	1.76076
8.045E-07	7.526E-07	7.080E-07	6.466E-07	6.270E-07	6.031E-07	5.665E-07	5.592E-07	4.839E-07	4.826E-07
28.092	31.387	43.273	43.308	47.129	50.109	56.245	56.841	56.946	57.928
1.83163	2.04651	2.82145	2.82374	3.07291	3.26722	3.66727	3.70613	3.71299	3.77699
4.701E-07	4.193E-07	3.881E-07	3.761E-07	3.629E-07	3.356E-07	3.233E-07	2.903E-07	2.796E-07	2.424E-07
65.010	66.132	66.272	70.935	70.970	72.583	73.179	73.284	74.722	76.370
4.23876	4.31191	4.32105	4.62509	4.62738	4.73253	4.77139	4.77825	4.87197	4.97942
2.419E-07	2.304E-07	2.096E-07	1.976E-07	1.963E-07	1.939E-07	1.819E-07	1.677E-07	1.530E-07	1.211E-07
76.405	81.909	83.872	83.907	84.188	85.520	85.906	86.747	91.095	92.111
4.98170	5.34060	5.46861	5.47090	5.48919	5.57605	5.60120	5.65606	5.93952	6.00582
1.186E-07	9.879E-08	9.083E-08	7.888E-08	7.406E-08	7.271E-08	6.823E-08	6.057E-08	5.926E-08	4.541E-08
92.147	92.322	93.479	93.794	94.461	96.003	96.389	97.896	98.317	99.369
6.00810	6.01953	6.09497	6.11554	6.15898	6.25956	6.28471	6.38300	6.41044	6.47901
3.634E-08	2.410E-08	1.478E-08							
99.825	99.965	100.000							
6.50873	6.51788	6.52016							

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 = 3.340E-05 DISTANCE = 800.000

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)= 0.044  
 HANDCHECK GRAPH: SLOPE LT -1.0 FOR LOW PERCENTAGES. XSAVE ( 3)= 0.245  
 HANDCHECK GRAPH: SLOPE LT -1.0 FOR LOW PERCENTAGES. XSAVE ( 6)= 2.819  
 HANDCHECK GRAPH: SLOPE LT -1.0 FOR LOW PERCENTAGES. XSAVE ( 7)= 3.664  
 HANDCHECK GRAPH: SLOPE LT -1.0 FOR LOW PERCENTAGES. XSAVE ( 8)= 3.703

K	I	XQSAVE(K, I)	XQINT(K, I)	XQSLOP(K, I)
9	1	-11.20349	-17.71506	-1.57054
9	2	-12.49203	-16.97851	-1.34906
9	3	-13.18295	-15.98594	-0.99627
9	4	-13.69019	-15.89546	-0.95700
9	5	-13.87721	-16.85648	-1.41270
9	6	-14.16087	-17.79475	-1.90442
9	7	-14.38379	-19.17156	-2.67313
9	8	-14.39667	NUMXQ(K)= 8	
		3.237E-06	0.065	1.000
		2.075E-06	0.196	3.000
		1.716E-06	0.326	5.000
		1.354E-06	0.652	10.000
		1.169E-06	0.978	15.000
		1.051E-06	1.304	20.000
		9.661E-07	1.630	25.000
		8.816E-07	1.956	30.000
		8.051E-07	2.282	35.000
		7.429E-07	2.608	40.000
		6.852E-07	2.934	45.000
		6.269E-07	3.260	50.000
		5.776E-07	3.586	55.000
		1.486E-06	0.5	7.67

ANNUAL AVERAGE = 1.80E-08

K= 9 FIVEXQ(K)= 1.486E-06 FIVEPR(K)= 7.669

FUMIGATION X/Q AT THE BOUNDARY: 1.68E-05

EXPONENTIAL TERM AND FREQUENCIES

9.937E-01	9.601E-01	8.190E-01	4.773E-01	2.610E-01	2.388E-01	5.166E-02
1.473	5.577	11.572	19.985	66.185	92.499	100.000

USNRC COMPUTER CODE-PAVAN, VERSION 2.0

RUN DATE: 03/14/07

PLANT NAME: Oyster Creek

METEOROLOGICAL INSTRUMENTATION

DATA PERIOD:

WIND SENSORS HEIGHT: 112 meters

TYPE OF RELEASE: Elevated Release

DELTA-T HEIGHTS: 10.1-115.8 meters

SOURCE OF DATA:

COMMENTS: Oyster Creek, Elevated Release, Stack, 1995-1999 met data

PROGRAM: PAVAN, 10/76, 8/79 REVISION, IMPLEMENTATION OF REGULATORY GUIDE 1.145

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

CLASS	METER/SEC	PERCENT	DISTANCE METERS	TERRAIN METERS	HT METERS	EFF PLUME HT METERS	SIGMA-Y METERS	SIGMA-Z METERS	MEANDER-SY METERS	** CHI/Q VALUES (SEC/CUBIC METER)		
										MEANDER	BLDG WAKE	USED
AT 112.0 METERS												
A	3.0	0.03	3218.	0.	112.	538.2	1000.0	0.0	0.000E+00	0.000E+00	1.976E-07	
A	4.0	0.03	3218.	0.	112.	538.2	1000.0	0.0	0.000E+00	0.000E+00	1.481E-07	
A	5.0	0.05	3218.	0.	112.	538.2	1000.0	0.0	0.000E+00	0.000E+00	1.186E-07	
A	5.9	0.11	3218.	0.	112.	538.2	1000.0	0.0	0.000E+00	0.000E+00	9.879E-08	
A	7.9	0.32	3218.	0.	112.	538.2	1000.0	0.0	0.000E+00	0.000E+00	7.406E-08	
A	9.9	0.32	3218.	0.	112.	538.2	1000.0	0.0	0.000E+00	0.000E+00	5.926E-08	
A	24.4	0.11	3218.	0.	112.	538.2	1000.0	0.0	0.000E+00	0.000E+00	2.410E-08	
CA= 957.SQ.METERS												
B	0.4	0.00	3218.	0.	112.	404.8	392.6	0.0	0.000E+00	0.000E+00	4.665E-06	
B	2.0	0.03	3218.	0.	112.	404.8	392.6	0.0	0.000E+00	0.000E+00	9.706E-07	
B	4.0	0.05	3218.	0.	112.	404.8	392.6	0.0	0.000E+00	0.000E+00	4.848E-07	
B	5.0	0.05	3218.	0.	112.	404.8	392.6	0.0	0.000E+00	0.000E+00	3.881E-07	
B	5.9	0.14	3218.	0.	112.	404.8	392.6	0.0	0.000E+00	0.000E+00	3.233E-07	
B	7.9	0.76	3218.	0.	112.	404.8	392.6	0.0	0.000E+00	0.000E+00	2.424E-07	
B	9.9	0.68	3218.	0.	112.	404.8	392.6	0.0	0.000E+00	0.000E+00	1.939E-07	
B	24.4	0.41	3218.	0.	112.	404.8	392.6	0.0	0.000E+00	0.000E+00	7.888E-08	
C	0.5	0.03	3218.	0.	112.	307.4	177.2	0.0	0.000E+00	0.000E+00	9.639E-06	
C	2.0	0.03	3218.	0.	112.	307.4	177.2	0.0	0.000E+00	0.000E+00	2.415E-06	
C	3.0	0.11	3218.	0.	112.	307.4	177.2	0.0	0.000E+00	0.000E+00	1.609E-06	
C	4.0	0.24	3218.	0.	112.	307.4	177.2	0.0	0.000E+00	0.000E+00	1.206E-06	
C	5.0	0.27	3218.	0.	112.	307.4	177.2	0.0	0.000E+00	0.000E+00	9.656E-07	
C	5.9	0.32	3218.	0.	112.	307.4	177.2	0.0	0.000E+00	0.000E+00	8.045E-07	
C	7.9	1.49	3218.	0.	112.	307.4	177.2	0.0	0.000E+00	0.000E+00	6.031E-07	
C	9.9	0.95	3218.	0.	112.	307.4	177.2	0.0	0.000E+00	0.000E+00	4.826E-07	
C	24.4	0.76	3218.	0.	112.	307.4	177.2	0.0	0.000E+00	0.000E+00	1.963E-07	
D	0.4	0.02	3218.	0.	112.	216.4	68.3	0.0	0.000E+00	0.000E+00	1.363E-05	
D	1.0	0.16	3218.	0.	112.	216.4	68.3	0.0	0.000E+00	0.000E+00	5.657E-06	
D	1.5	0.22	3218.	0.	112.	216.4	68.3	0.0	0.000E+00	0.000E+00	3.772E-06	
D	2.0	0.30	3218.	0.	112.	216.4	68.3	0.0	0.000E+00	0.000E+00	2.835E-06	
D	3.0	1.46	3218.	0.	112.	216.4	68.3	0.0	0.000E+00	0.000E+00	1.889E-06	
D	4.0	2.35	3218.	0.	112.	216.4	68.3	0.0	0.000E+00	0.000E+00	1.416E-06	
D	5.0	3.19	3218.	0.	112.	216.4	68.3	0.0	0.000E+00	0.000E+00	1.134E-06	
D	5.9	4.35	3218.	0.	112.	216.4	68.3	0.0	0.000E+00	0.000E+00	9.443E-07	
D	7.9	11.96	3218.	0.	112.	216.4	68.3	0.0	0.000E+00	0.000E+00	7.080E-07	
D	9.9	8.21	3218.	0.	112.	216.4	68.3	0.0	0.000E+00	0.000E+00	5.665E-07	
D	24.4	7.32	3218.	0.	112.	216.4	68.3	0.0	0.000E+00	0.000E+00	2.304E-07	
E	0.4	0.01	7000.	0.	112.	310.5	66.2	0.0	0.000E+00	0.000E+00	9.048E-06	
E	0.7	0.08	7000.	0.	112.	310.5	66.2	0.0	0.000E+00	0.000E+00	5.009E-06	
E	1.2	0.05	7000.	0.	112.	310.5	66.2	0.0	0.000E+00	0.000E+00	3.005E-06	
E	1.5	0.14	7000.	0.	112.	310.5	66.2	0.0	0.000E+00	0.000E+00	2.504E-06	



E	2.0	0.27	7000.	0.	112.	310.5	66.2	0.0	0.000E+00	0.000E+00	1.882E-06
E	3.0	0.81	7000.	0.	112.	310.5	66.2	0.0	0.000E+00	0.000E+00	1.254E-06
E	3.9	1.43	7000.	0.	112.	310.5	66.2	0.0	0.000E+00	0.000E+00	9.402E-07
E	4.9	2.46	7000.	0.	112.	310.5	66.2	0.0	0.000E+00	0.000E+00	7.526E-07
E	5.9	3.16	7000.	0.	112.	310.5	66.2	0.0	0.000E+00	0.000E+00	6.270E-07
E	7.9	12.56	7000.	0.	112.	310.5	66.2	0.0	0.000E+00	0.000E+00	4.701E-07
E	9.8	10.53	7000.	0.	112.	310.5	66.2	0.0	0.000E+00	0.000E+00	3.761E-07
E	24.2	6.10	7000.	0.	112.	310.5	66.2	0.0	0.000E+00	0.000E+00	1.530E-07
F	0.4	0.01	90000.	0.	112.	1000.0	92.1	0.0	0.000E+00	0.000E+00	4.035E-06
F	0.7	0.05	90000.	0.	112.	1000.0	92.1	0.0	0.000E+00	0.000E+00	2.234E-06
F	1.2	0.03	90000.	0.	112.	1000.0	92.1	0.0	0.000E+00	0.000E+00	1.340E-06
F	1.5	0.03	90000.	0.	112.	1000.0	92.1	0.0	0.000E+00	0.000E+00	1.117E-06
F	2.0	0.11	90000.	0.	112.	1000.0	92.1	0.0	0.000E+00	0.000E+00	8.395E-07
F	3.0	0.38	90000.	0.	112.	1000.0	92.1	0.0	0.000E+00	0.000E+00	5.592E-07
F	3.9	0.59	90000.	0.	112.	1000.0	92.1	0.0	0.000E+00	0.000E+00	4.193E-07
F	4.9	1.08	90000.	0.	112.	1000.0	92.1	0.0	0.000E+00	0.000E+00	3.356E-07
F	5.9	1.24	90000.	0.	112.	1000.0	92.1	0.0	0.000E+00	0.000E+00	2.796E-07
F	7.9	2.67	90000.	0.	112.	1000.0	92.1	0.0	0.000E+00	0.000E+00	2.096E-07
F	9.8	2.08	90000.	0.	112.	1000.0	92.1	0.0	0.000E+00	0.000E+00	1.677E-07
F	24.2	1.03	90000.	0.	112.	1000.0	92.1	0.0	0.000E+00	0.000E+00	6.823E-08
G	0.4	0.02	90000.	0.	112.	1000.0	46.0	0.0	0.000E+00	0.000E+00	8.741E-07
G	0.5	0.03	90000.	0.	112.	1000.0	46.0	0.0	0.000E+00	0.000E+00	7.258E-07
G	1.0	0.03	90000.	0.	112.	1000.0	46.0	0.0	0.000E+00	0.000E+00	3.629E-07
G	1.2	0.03	90000.	0.	112.	1000.0	46.0	0.0	0.000E+00	0.000E+00	2.903E-07
G	1.5	0.05	90000.	0.	112.	1000.0	46.0	0.0	0.000E+00	0.000E+00	2.419E-07
G	2.0	0.24	90000.	0.	112.	1000.0	46.0	0.0	0.000E+00	0.000E+00	1.819E-07
G	3.0	0.73	90000.	0.	112.	1000.0	46.0	0.0	0.000E+00	0.000E+00	1.211E-07
G	3.9	0.70	90000.	0.	112.	1000.0	46.0	0.0	0.000E+00	0.000E+00	9.083E-08
G	4.9	1.11	90000.	0.	112.	1000.0	46.0	0.0	0.000E+00	0.000E+00	7.271E-08
G	5.9	0.86	90000.	0.	112.	1000.0	46.0	0.0	0.000E+00	0.000E+00	6.057E-08
G	7.9	1.54	90000.	0.	112.	1000.0	46.0	0.0	0.000E+00	0.000E+00	4.541E-08
G	9.8	0.65	90000.	0.	112.	1000.0	46.0	0.0	0.000E+00	0.000E+00	3.634E-08
G	24.2	0.30	90000.	0.	112.	1000.0	46.0	0.0	0.000E+00	0.000E+00	1.478E-08

USNRC COMPUTER CODE-PAVAN, VERSION 2.0

RUN DATE: 03/14/07

PLANT NAME: Oyster Creek

METEOROLOGICAL INSTRUMENTATION

DATA PERIOD:

WIND SENSORS HEIGHT: 112 meters

TYPE OF RELEASE: Elevated Release

DELTA-T HEIGHTS: 10.1-115.8 meters

SOURCE OF DATA:

COMMENTS: Oyster Creek, Elevated Release, Stack, 1995-1999 met data

PROGRAM: PAVAN, 10/76, 8/79 REVISION, IMPLEMENTATION OF REGULATORY GUIDE 1.145

LOW POPULATION ZONE CALCULATIONS:

NNE SECTOR BOUNDARY DISTANCE = 3218.0 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.

1.363E-05	9.639E-06	9.048E-06	5.657E-06	5.009E-06	4.665E-06	4.035E-06	3.772E-06	3.005E-06	2.835E-06
0.020	0.047	0.062	0.224	0.305	0.306	0.319	0.536	0.590	0.887
0.00169	0.00398	0.00522	0.01894	0.02580	0.02594	0.02704	0.04533	0.04990	0.07505
2.504E-06	2.415E-06	2.234E-06	1.889E-06	1.882E-06	1.609E-06	1.416E-06	1.340E-06	1.254E-06	1.206E-06
1.022	1.049	1.103	2.561	2.831	2.939	5.289	5.316	6.126	6.369
0.08648	0.08876	0.09333	0.21678	0.23964	0.24878	0.44766	0.44995	0.51853	0.53910
1.134E-06	1.117E-06	9.706E-07	9.656E-07	9.443E-07	9.402E-07	8.741E-07	8.395E-07	8.045E-07	7.526E-07
9.556	9.583	9.610	9.880	14.228	15.660	15.682	15.790	16.114	18.572
0.80884	0.81113	0.81342	0.83628	1.20432	1.32547	1.32737	1.33651	1.36395	1.57197
7.258E-07	7.080E-07	6.270E-07	6.031E-07	5.665E-07	5.592E-07	4.848E-07	4.826E-07	4.701E-07	4.193E-07
18.599	30.563	33.723	35.209	43.419	43.797	43.851	44.796	57.355	57.949
1.57426	2.58694	2.85440	2.98013	3.67507	3.70707	3.71164	3.79165	4.85463	4.90492
3.881E-07	3.761E-07	3.629E-07	3.356E-07	3.233E-07	2.903E-07	2.796E-07	2.424E-07	2.419E-07	2.304E-07
58.003	68.536	68.563	69.643	69.778	69.805	71.048	71.804	71.858	79.177
4.90949	5.80102	5.80331	5.89475	5.90618	5.90847	6.01362	6.07763	6.08220	6.70170
2.096E-07	1.976E-07	1.963E-07	1.939E-07	1.819E-07	1.677E-07	1.530E-07	1.481E-07	1.211E-07	1.186E-07
81.851	81.878	82.634	83.309	83.552	85.632	91.736	91.763	92.492	92.546
6.92801	6.93030	6.99430	7.05145	7.07203	7.24805	7.76468	7.76696	7.82868	7.83326
9.879E-08	9.083E-08	7.888E-08	7.406E-08	7.271E-08	6.823E-08	6.057E-08	5.926E-08	4.541E-08	3.634E-08
92.654	93.356	93.761	94.085	95.193	96.219	97.083	97.407	98.947	99.595
7.84240	7.90184	7.93612	7.96356	8.05728	8.14415	8.21730	8.24473	8.37503	8.42990
2.410E-08	1.478E-08								
99.703	100.000								
8.43904	8.46418								

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 = 3.340E-05 DISTANCE = 800.000

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)= 0.026  
 HANDCHECK GRAPH: SLOPE LT -1.0 FOR LOW PERCENTAGES. XSAVE ( 3)= 0.217  
 HANDCHECK GRAPH: SLOPE LT -1.0 FOR LOW PERCENTAGES. XSAVE ( 5)= 0.808  
 HANDCHECK GRAPH: SLOPE LT -1.0 FOR LOW PERCENTAGES. XSAVE ( 6)= 1.324  
 HANDCHECK GRAPH: SLOPE LT -1.0 FOR LOW PERCENTAGES. XSAVE ( 7)= 2.584  
 HANDCHECK GRAPH: SLOPE LT -1.0 FOR LOW PERCENTAGES. XSAVE ( 8)= 4.851  
 HANDCHECK GRAPH: SLOPE LT -1.0 FOR LOW PERCENTAGES. XSAVE ( 9)= 5.797

K	I	XQSAVE(K,I)	XQINT(K,I)	XQSLOP(K,I)
10	1	-11.20349	-17.36441	-1.48596
10	2	-12.20435	-17.67110	-1.57428
10	3	-13.17966	-13.47219	-0.10253
10	4	-13.18295	-16.62542	-1.22030
10	5	-13.69019	-16.10582	-1.00428
10	6	-13.87721	-16.17974	-1.03759
10	7	-14.16087	-16.94429	-1.43053
10	8	-14.57036	-18.80061	-2.54915
10	9	-14.79328	NUMXQ(K)= 9	
		2.966E-06	0.085	1.000
		1.840E-06	0.254	3.000
		1.497E-06	0.423	5.000
		1.115E-06	0.846	10.000
		9.561E-07	1.270	15.000
		8.502E-07	1.693	20.000
		7.733E-07	2.116	25.000
		7.139E-07	2.539	30.000
		6.507E-07	2.962	35.000
		5.977E-07	3.386	40.000
		5.535E-07	3.809	45.000
		5.161E-07	4.232	50.000
		4.838E-07	4.655	55.000
		4.446E-07	5.079	60.000
		4.023E-07	5.502	65.000
		1.396E-06	0.5	5.91

ANNUAL AVERAGE = 1.84E-08

K= 10 FIVEXQ(K)= 1.396E-06 FIVEPR(K)= 5.907

FUMIGATION X/Q AT THE BOUNDARY: 1.68E-05

EXPONENTIAL TERM AND FREQUENCIES

9.937E-01	9.601E-01	8.190E-01	4.773E-01	2.610E-01	2.388E-01	5.166E-02
0.972	3.081	7.267	16.570	56.103	93.712	100.000

USNRC COMPUTER CODE-PAVAN, VERSION 2.0

RUN DATE: 03/14/07

PLANT NAME: Oyster Creek

METEOROLOGICAL INSTRUMENTATION

DATA PERIOD:

WIND SENSORS HEIGHT: 112 meters

TYPE OF RELEASE: Elevated Release

DELTA-T HEIGHTS: 10.1-115.8 meters

SOURCE OF DATA:

COMMENTS: Oyster Creek, Elevated Release, Stack, 1995-1999 met data

PROGRAM: PAVAN, 10/76, 8/79 REVISION, IMPLEMENTATION OF REGULATORY GUIDE 1.145

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

CLASS	METER/SEC	PERCENT	METERS	METERS	METERS	SIGMA-Y	SIGMA-Z	MEANDER-SY	** CHI/Q-VALUES (SEC/CUBIC METER)		
									MEANDER	BLDG WAKE	USED
AT 112.0 METERS									CA= 957.SQ.METERS		
A	3.0	0.03	3218.	0.	112.	538.2	1000.0	0.0	0.000E+00	0.000E+00	1.976E-07
A	4.0	0.13	3218.	0.	112.	538.2	1000.0	0.0	0.000E+00	0.000E+00	1.481E-07
A	5.0	0.27	3218.	0.	112.	538.2	1000.0	0.0	0.000E+00	0.000E+00	1.186E-07
A	5.9	0.13	3218.	0.	112.	538.2	1000.0	0.0	0.000E+00	0.000E+00	9.879E-08
A	7.9	0.23	3218.	0.	112.	538.2	1000.0	0.0	0.000E+00	0.000E+00	7.406E-08
A	9.9	0.07	3218.	0.	112.	538.2	1000.0	0.0	0.000E+00	0.000E+00	5.926E-08
A	24.4	0.03	3218.	0.	112.	538.2	1000.0	0.0	0.000E+00	0.000E+00	2.410E-08
B	0.4	0.00	3218.	0.	112.	404.8	392.6	0.0	0.000E+00	0.000E+00	4.665E-06
B	3.0	0.03	3218.	0.	112.	404.8	392.6	0.0	0.000E+00	0.000E+00	6.466E-07
B	4.0	0.07	3218.	0.	112.	404.8	392.6	0.0	0.000E+00	0.000E+00	4.848E-07
B	5.0	0.10	3218.	0.	112.	404.8	392.6	0.0	0.000E+00	0.000E+00	3.881E-07
B	5.9	0.17	3218.	0.	112.	404.8	392.6	0.0	0.000E+00	0.000E+00	3.233E-07
B	7.9	0.43	3218.	0.	112.	404.8	392.6	0.0	0.000E+00	0.000E+00	2.424E-07
B	9.9	0.23	3218.	0.	112.	404.8	392.6	0.0	0.000E+00	0.000E+00	1.939E-07
B	24.4	0.20	3218.	0.	112.	404.8	392.6	0.0	0.000E+00	0.000E+00	7.888E-08
C	3.0	0.07	3218.	0.	112.	307.4	177.2	0.0	0.000E+00	0.000E+00	1.609E-06
C	4.0	0.50	3218.	0.	112.	307.4	177.2	0.0	0.000E+00	0.000E+00	1.206E-06
C	5.0	0.46	3218.	0.	112.	307.4	177.2	0.0	0.000E+00	0.000E+00	9.656E-07
C	5.9	0.17	3218.	0.	112.	307.4	177.2	0.0	0.000E+00	0.000E+00	8.045E-07
C	7.9	0.86	3218.	0.	112.	307.4	177.2	0.0	0.000E+00	0.000E+00	6.031E-07
C	9.9	0.63	3218.	0.	112.	307.4	177.2	0.0	0.000E+00	0.000E+00	4.826E-07
C	24.4	0.33	3218.	0.	112.	307.4	177.2	0.0	0.000E+00	0.000E+00	1.963E-07
D	0.4	0.03	3218.	0.	112.	216.4	68.3	0.0	0.000E+00	0.000E+00	1.363E-05
D	0.7	0.07	3218.	0.	112.	216.4	68.3	0.0	0.000E+00	0.000E+00	7.543E-06
D	1.0	0.03	3218.	0.	112.	216.4	68.3	0.0	0.000E+00	0.000E+00	5.657E-06
D	1.2	0.13	3218.	0.	112.	216.4	68.3	0.0	0.000E+00	0.000E+00	4.526E-06
D	1.5	0.20	3218.	0.	112.	216.4	68.3	0.0	0.000E+00	0.000E+00	3.772E-06
D	2.0	0.60	3218.	0.	112.	216.4	68.3	0.0	0.000E+00	0.000E+00	2.835E-06
D	3.0	1.69	3218.	0.	112.	216.4	68.3	0.0	0.000E+00	0.000E+00	1.889E-06
D	4.0	2.95	3218.	0.	112.	216.4	68.3	0.0	0.000E+00	0.000E+00	1.416E-06
D	5.0	2.92	3218.	0.	112.	216.4	68.3	0.0	0.000E+00	0.000E+00	1.134E-06
D	5.9	3.08	3218.	0.	112.	216.4	68.3	0.0	0.000E+00	0.000E+00	9.443E-07
D	7.9	4.91	3218.	0.	112.	216.4	68.3	0.0	0.000E+00	0.000E+00	7.080E-07
D	9.9	3.51	3218.	0.	112.	216.4	68.3	0.0	0.000E+00	0.000E+00	5.665E-07
D	24.4	2.45	3218.	0.	112.	216.4	68.3	0.0	0.000E+00	0.000E+00	2.304E-07
E	0.4	0.03	7000.	0.	112.	310.5	66.2	0.0	0.000E+00	0.000E+00	9.048E-06
E	0.7	0.03	7000.	0.	112.	310.5	66.2	0.0	0.000E+00	0.000E+00	5.009E-06
E	1.0	0.13	7000.	0.	112.	310.5	66.2	0.0	0.000E+00	0.000E+00	3.756E-06
E	1.2	0.07	7000.	0.	112.	310.5	66.2	0.0	0.000E+00	0.000E+00	3.005E-06

E	1.5	0.03	7000.	0.	112.	310.5	66.2	0.0	0.000E+00	0.000E+00	2.504E-06
E	2.0	0.50	7000.	0.	112.	310.5	66.2	0.0	0.000E+00	0.000E+00	1.882E-06
E	3.0	0.89	7000.	0.	112.	310.5	66.2	0.0	0.000E+00	0.000E+00	1.254E-06
E	3.9	1.43	7000.	0.	112.	310.5	66.2	0.0	0.000E+00	0.000E+00	9.402E-07
E	4.9	1.99	7000.	0.	112.	310.5	66.2	0.0	0.000E+00	0.000E+00	7.526E-07
E	5.9	3.65	7000.	0.	112.	310.5	66.2	0.0	0.000E+00	0.000E+00	6.270E-07
E	7.9	10.41	7000.	0.	112.	310.5	66.2	0.0	0.000E+00	0.000E+00	4.701E-07
E	9.8	12.43	7000.	0.	112.	310.5	66.2	0.0	0.000E+00	0.000E+00	3.761E-07
E	24.2	9.81	7000.	0.	112.	310.5	66.2	0.0	0.000E+00	0.000E+00	1.530E-07
F	0.4	0.02	90000.	0.	112.	1000.0	92.1	0.0	0.000E+00	0.000E+00	4.035E-06
F	0.7	0.07	90000.	0.	112.	1000.0	92.1	0.0	0.000E+00	0.000E+00	2.234E-06
F	1.0	0.03	90000.	0.	112.	1000.0	92.1	0.0	0.000E+00	0.000E+00	1.675E-06
F	1.2	0.03	90000.	0.	112.	1000.0	92.1	0.0	0.000E+00	0.000E+00	1.340E-06
F	1.5	0.07	90000.	0.	112.	1000.0	92.1	0.0	0.000E+00	0.000E+00	1.117E-06
F	2.0	0.10	90000.	0.	112.	1000.0	92.1	0.0	0.000E+00	0.000E+00	8.395E-07
F	3.0	0.60	90000.	0.	112.	1000.0	92.1	0.0	0.000E+00	0.000E+00	5.592E-07
F	3.9	0.96	90000.	0.	112.	1000.0	92.1	0.0	0.000E+00	0.000E+00	4.193E-07
F	4.9	1.16	90000.	0.	112.	1000.0	92.1	0.0	0.000E+00	0.000E+00	3.356E-07
F	5.9	1.52	90000.	0.	112.	1000.0	92.1	0.0	0.000E+00	0.000E+00	2.796E-07
F	7.9	4.64	90000.	0.	112.	1000.0	92.1	0.0	0.000E+00	0.000E+00	2.096E-07
F	9.8	5.07	90000.	0.	112.	1000.0	92.1	0.0	0.000E+00	0.000E+00	1.677E-07
F	24.2	5.67	90000.	0.	112.	1000.0	92.1	0.0	0.000E+00	0.000E+00	6.823E-08
G	0.4	0.08	90000.	0.	112.	1000.0	46.0	0.0	0.000E+00	0.000E+00	8.741E-07
G	0.5	0.03	90000.	0.	112.	1000.0	46.0	0.0	0.000E+00	0.000E+00	7.258E-07
G	1.0	0.23	90000.	0.	112.	1000.0	46.0	0.0	0.000E+00	0.000E+00	3.629E-07
G	1.2	0.03	90000.	0.	112.	1000.0	46.0	0.0	0.000E+00	0.000E+00	2.903E-07
G	1.5	0.27	90000.	0.	112.	1000.0	46.0	0.0	0.000E+00	0.000E+00	2.419E-07
G	2.0	0.33	90000.	0.	112.	1000.0	46.0	0.0	0.000E+00	0.000E+00	1.819E-07
G	3.0	0.80	90000.	0.	112.	1000.0	46.0	0.0	0.000E+00	0.000E+00	1.211E-07
G	3.9	1.26	90000.	0.	112.	1000.0	46.0	0.0	0.000E+00	0.000E+00	9.083E-08
G	4.9	1.19	90000.	0.	112.	1000.0	46.0	0.0	0.000E+00	0.000E+00	7.271E-08
G	5.9	1.59	90000.	0.	112.	1000.0	46.0	0.0	0.000E+00	0.000E+00	6.057E-08
G	7.9	2.39	90000.	0.	112.	1000.0	46.0	0.0	0.000E+00	0.000E+00	4.541E-08
G	9.8	1.89	90000.	0.	112.	1000.0	46.0	0.0	0.000E+00	0.000E+00	3.634E-08
G	24.2	0.86	90000.	0.	112.	1000.0	46.0	0.0	0.000E+00	0.000E+00	1.478E-08

USNRC COMPUTER CODE-PAVAN, VERSION 2.0

RUN DATE: 03/14/07

PLANT NAME: Oyster Creek

METEOROLOGICAL INSTRUMENTATION

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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.

1.363E-05	9.048E-06	7.543E-06	5.657E-06	5.009E-06	4.665E-06	4.526E-06	4.035E-06	3.772E-06	3.756E-06
0.029	0.054	0.120	0.153	0.186	0.189	0.321	0.342	0.541	0.674
0.00197	0.00372	0.00829	0.01057	0.01286	0.01300	0.02215	0.02362	0.03733	0.04648
3.005E-06	2.835E-06	2.504E-06	2.234E-06	1.889E-06	1.882E-06	1.675E-06	1.609E-06	1.416E-06	1.340E-06
0.740	1.337	1.370	1.436	3.127	3.624	3.657	3.723	6.674	6.707
0.05105	0.09220	0.09448	0.09905	0.21564	0.24993	0.25221	0.25679	0.46024	0.46252
1.254E-06	1.206E-06	1.134E-06	1.117E-06	9.656E-07	9.443E-07	9.402E-07	8.741E-07	8.395E-07	8.045E-07
7.602	8.099	11.016	11.082	11.546	14.629	16.054	16.137	16.236	16.402
0.52424	0.55853	0.75970	0.76427	0.79628	1.00887	1.10717	1.11285	1.11971	1.13114
7.526E-07	7.258E-07	7.080E-07	6.466E-07	6.270E-07	6.031E-07	5.665E-07	5.592E-07	4.848E-07	4.826E-07
18.391	18.424	23.330	23.363	27.009	27.871	31.385	31.981	32.048	32.677
1.26830	1.27059	1.60891	1.61120	1.86265	1.92209	2.16440	2.20555	2.21012	2.25356
4.701E-07	4.193E-07	3.881E-07	3.761E-07	3.629E-07	3.356E-07	3.233E-07	2.903E-07	2.796E-07	2.424E-07
43.086	44.047	44.146	56.577	56.809	57.969	58.135	58.168	59.693	60.124
2.97135	3.03764	3.04450	3.90174	3.91775	3.99775	4.00918	4.01147	4.11662	4.14634
2.419E-07	2.304E-07	2.096E-07	1.976E-07	1.963E-07	1.939E-07	1.819E-07	1.677E-07	1.530E-07	1.481E-07
60.389	62.842	67.482	67.515	67.847	68.079	68.410	73.482	83.294	83.426
4.16463	4.33379	4.65383	4.65612	4.67897	4.69498	4.71784	5.06759	5.74424	5.75338
1.211E-07	1.186E-07	9.879E-08	9.083E-08	7.888E-08	7.406E-08	7.271E-08	6.823E-08	6.057E-08	5.926E-08
84.222	84.487	84.620	85.879	86.078	86.310	87.503	93.172	94.763	94.829
5.80825	5.82653	5.83568	5.92255	5.93626	5.95226	6.03456	6.42546	6.53519	6.53976
4.541E-08	3.634E-08	2.410E-08	1.478E-08						
97.216	99.105	99.138	100.000						
6.70435	6.83465	6.83694	6.89637						

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 = 3.340E-05 DISTANCE = 800.000

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)= 0.046  
 HANDCHECK GRAPH: SLOPE LT -1.0 FOR LOW PERCENTAGES. XSAVE ( 3)= 0.250  
 HANDCHECK GRAPH: SLOPE LT -1.0 FOR LOW PERCENTAGES. XSAVE ( 4)= 0.759  
 HANDCHECK GRAPH: SLOPE LT -1.0 FOR LOW PERCENTAGES. XSAVE ( 5)= 1.106  
 HANDCHECK GRAPH: SLOPE LT -1.0 FOR LOW PERCENTAGES. XSAVE ( 6)= 1.607  
 HANDCHECK GRAPH: SLOPE LT -1.0 FOR LOW PERCENTAGES. XSAVE ( 7)= 2.969  
 HANDCHECK GRAPH: SLOPE LT -1.0 FOR LOW PERCENTAGES. XSAVE ( 8)= 3.898

K	I	XQSAVE(K, I)	XQINT(K, I)	XQSLOP(K, I)
11	1	-11.20349	-17.82960	-1.61194
11	2	-12.49203	-17.03333	-1.37147
11	3	-13.18295	-16.93708	-1.33718
11	4	-13.69019	-16.93825	-1.33767
11	5	-13.87721	-18.33205	-1.94676
11	6	-14.16087	-17.57228	-1.59216
11	7	-14.57036	-17.99181	-1.81467
11	8	-14.79328	NUMXQ(K)= 8	
		3.221E-06	0.069	1.000
		2.045E-06	0.207	3.000
		1.635E-06	0.345	5.000
		1.188E-06	0.690	10.000
		9.731E-07	1.034	15.000
		7.971E-07	1.379	20.000
		6.773E-07	1.724	25.000
		6.014E-07	2.069	30.000
		5.425E-07	2.414	35.000
		4.951E-07	2.759	40.000
		4.540E-07	3.103	45.000
		4.167E-07	3.448	50.000
		3.851E-07	3.793	55.000
		1.382E-06	0.5	7.25

ANNUAL AVERAGE = 1.22E-08

K= 11 FIVEXQ(K)= 1.382E-06 FIVEPR(K)= 7.250

FUMIGATION X/Q AT THE BOUNDARY: 1.68E-05

EXPONENTIAL TERM AND FREQUENCIES

9.937E-01	9.601E-01	8.190E-01	4.773E-01	2.610E-01	2.388E-01	5.166E-02
0.895	2.124	5.140	25.083	47.652	89.045	100.000

USNRC COMPUTER CODE-PAVAN, VERSION 2.0

RUN DATE: 03/14/07

PLANT NAME: Oyster Creek

METEOROLOGICAL INSTRUMENTATION

DATA PERIOD:

WIND SENSORS HEIGHT: 112 meters

TYPE OF RELEASE: Elevated Release

DELTA-T HEIGHTS: 10.1-115.8 meters

SOURCE OF DATA:

COMMENTS: Oyster Creek, Elevated Release, Stack, 1995-1999 met data

PROGRAM: PAVAN, 10/76, 8/79 REVISION, IMPLEMENTATION OF REGULATORY GUIDE 1.145

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

CLASS	METER/SEC	PERCENT	METERS	METERS	METERS	SIGMA-Y METERS	SIGMA-Z METERS	MEANDER-SY METERS	** CHI/Q VALUES (SEC/CUBIC METER)		
									MEANDER	BLDG WAKE	USED
AT 112.0 METERS									CA= 957.SQ.METERS		
A	3.0	0.03	3218.	0.	112.	538.2	1000.0	0.0	0.000E+00	0.000E+00	1.976E-07
A	4.0	0.13	3218.	0.	112.	538.2	1000.0	0.0	0.000E+00	0.000E+00	1.481E-07
A	5.0	0.07	3218.	0.	112.	538.2	1000.0	0.0	0.000E+00	0.000E+00	1.186E-07
A	5.9	0.16	3218.	0.	112.	538.2	1000.0	0.0	0.000E+00	0.000E+00	9.879E-08
A	7.9	0.29	3218.	0.	112.	538.2	1000.0	0.0	0.000E+00	0.000E+00	7.406E-08
A	9.9	0.23	3218.	0.	112.	538.2	1000.0	0.0	0.000E+00	0.000E+00	5.926E-08
A	24.4	0.23	3218.	0.	112.	538.2	1000.0	0.0	0.000E+00	0.000E+00	2.410E-08
B	0.4	0.00	3218.	0.	112.	404.8	392.6	0.0	0.000E+00	0.000E+00	4.665E-06
B	4.0	0.20	3218.	0.	112.	404.8	392.6	0.0	0.000E+00	0.000E+00	4.848E-07
B	5.0	0.33	3218.	0.	112.	404.8	392.6	0.0	0.000E+00	0.000E+00	3.881E-07
B	5.9	0.46	3218.	0.	112.	404.8	392.6	0.0	0.000E+00	0.000E+00	3.233E-07
B	7.9	1.08	3218.	0.	112.	404.8	392.6	0.0	0.000E+00	0.000E+00	2.424E-07
B	9.9	0.56	3218.	0.	112.	404.8	392.6	0.0	0.000E+00	0.000E+00	1.939E-07
B	24.4	0.29	3218.	0.	112.	404.8	392.6	0.0	0.000E+00	0.000E+00	7.888E-08
C	2.0	0.10	3218.	0.	112.	307.4	177.2	0.0	0.000E+00	0.000E+00	2.415E-06
C	3.0	0.13	3218.	0.	112.	307.4	177.2	0.0	0.000E+00	0.000E+00	1.609E-06
C	4.0	0.36	3218.	0.	112.	307.4	177.2	0.0	0.000E+00	0.000E+00	1.206E-06
C	5.0	0.82	3218.	0.	112.	307.4	177.2	0.0	0.000E+00	0.000E+00	9.656E-07
C	5.9	1.14	3218.	0.	112.	307.4	177.2	0.0	0.000E+00	0.000E+00	8.045E-07
C	7.9	1.93	3218.	0.	112.	307.4	177.2	0.0	0.000E+00	0.000E+00	6.031E-07
C	9.9	0.69	3218.	0.	112.	307.4	177.2	0.0	0.000E+00	0.000E+00	4.826E-07
C	24.4	0.52	3218.	0.	112.	307.4	177.2	0.0	0.000E+00	0.000E+00	1.963E-07
D	0.4	0.02	3218.	0.	112.	216.4	68.3	0.0	0.000E+00	0.000E+00	1.363E-05
D	0.7	0.03	3218.	0.	112.	216.4	68.3	0.0	0.000E+00	0.000E+00	7.543E-06
D	1.0	0.07	3218.	0.	112.	216.4	68.3	0.0	0.000E+00	0.000E+00	5.657E-06
D	1.2	0.10	3218.	0.	112.	216.4	68.3	0.0	0.000E+00	0.000E+00	4.526E-06
D	1.5	0.20	3218.	0.	112.	216.4	68.3	0.0	0.000E+00	0.000E+00	3.772E-06
D	2.0	0.26	3218.	0.	112.	216.4	68.3	0.0	0.000E+00	0.000E+00	2.835E-06
D	3.0	1.44	3218.	0.	112.	216.4	68.3	0.0	0.000E+00	0.000E+00	1.889E-06
D	4.0	2.71	3218.	0.	112.	216.4	68.3	0.0	0.000E+00	0.000E+00	1.416E-06
D	5.0	3.33	3218.	0.	112.	216.4	68.3	0.0	0.000E+00	0.000E+00	1.134E-06
D	5.9	4.21	3218.	0.	112.	216.4	68.3	0.0	0.000E+00	0.000E+00	9.443E-07
D	7.9	7.48	3218.	0.	112.	216.4	68.3	0.0	0.000E+00	0.000E+00	7.080E-07
D	9.9	3.89	3218.	0.	112.	216.4	68.3	0.0	0.000E+00	0.000E+00	5.665E-07
D	24.4	2.78	3218.	0.	112.	216.4	68.3	0.0	0.000E+00	0.000E+00	2.304E-07
E	0.4	0.02	7000.	0.	112.	310.5	66.2	0.0	0.000E+00	0.000E+00	9.048E-06
E	1.0	0.07	7000.	0.	112.	310.5	66.2	0.0	0.000E+00	0.000E+00	3.756E-06
E	1.2	0.10	7000.	0.	112.	310.5	66.2	0.0	0.000E+00	0.000E+00	3.005E-06
E	1.5	0.10	7000.	0.	112.	310.5	66.2	0.0	0.000E+00	0.000E+00	2.504E-06



E	2.0	0.26	7000.	0.	112.	310.5	66.2	0.0	0.000E+00	0.000E+00	1.882E-06
E	3.0	0.56	7000.	0.	112.	310.5	66.2	0.0	0.000E+00	0.000E+00	1.254E-06
E	3.9	1.18	7000.	0.	112.	310.5	66.2	0.0	0.000E+00	0.000E+00	9.402E-07
E	4.9	1.60	7000.	0.	112.	310.5	66.2	0.0	0.000E+00	0.000E+00	7.526E-07
E	5.9	2.78	7000.	0.	112.	310.5	66.2	0.0	0.000E+00	0.000E+00	6.270E-07
E	7.9	7.54	7000.	0.	112.	310.5	66.2	0.0	0.000E+00	0.000E+00	4.701E-07
E	9.8	11.26	7000.	0.	112.	310.5	66.2	0.0	0.000E+00	0.000E+00	3.761E-07
E	24.2	6.20	7000.	0.	112.	310.5	66.2	0.0	0.000E+00	0.000E+00	1.530E-07
F	0.4	0.03	90000.	0.	112.	1000.0	92.1	0.0	0.000E+00	0.000E+00	4.035E-06
F	0.5	0.03	90000.	0.	112.	1000.0	92.1	0.0	0.000E+00	0.000E+00	3.350E-06
F	0.7	0.03	90000.	0.	112.	1000.0	92.1	0.0	0.000E+00	0.000E+00	2.234E-06
F	1.0	0.10	90000.	0.	112.	1000.0	92.1	0.0	0.000E+00	0.000E+00	1.675E-06
F	1.2	0.03	90000.	0.	112.	1000.0	92.1	0.0	0.000E+00	0.000E+00	1.340E-06
F	1.5	0.16	90000.	0.	112.	1000.0	92.1	0.0	0.000E+00	0.000E+00	1.117E-06
F	2.0	0.29	90000.	0.	112.	1000.0	92.1	0.0	0.000E+00	0.000E+00	8.395E-07
F	3.0	0.46	90000.	0.	112.	1000.0	92.1	0.0	0.000E+00	0.000E+00	5.592E-07
F	3.9	0.46	90000.	0.	112.	1000.0	92.1	0.0	0.000E+00	0.000E+00	4.193E-07
F	4.9	1.01	90000.	0.	112.	1000.0	92.1	0.0	0.000E+00	0.000E+00	3.356E-07
F	5.9	0.75	90000.	0.	112.	1000.0	92.1	0.0	0.000E+00	0.000E+00	2.796E-07
F	7.9	3.30	90000.	0.	112.	1000.0	92.1	0.0	0.000E+00	0.000E+00	2.096E-07
F	9.8	6.33	90000.	0.	112.	1000.0	92.1	0.0	0.000E+00	0.000E+00	1.677E-07
F	24.2	5.68	90000.	0.	112.	1000.0	92.1	0.0	0.000E+00	0.000E+00	6.823E-08
G	0.4	0.05	90000.	0.	112.	1000.0	46.0	0.0	0.000E+00	0.000E+00	8.741E-07
G	1.0	0.10	90000.	0.	112.	1000.0	46.0	0.0	0.000E+00	0.000E+00	3.629E-07
G	1.2	0.07	90000.	0.	112.	1000.0	46.0	0.0	0.000E+00	0.000E+00	2.903E-07
G	1.5	0.10	90000.	0.	112.	1000.0	46.0	0.0	0.000E+00	0.000E+00	2.419E-07
G	2.0	0.13	90000.	0.	112.	1000.0	46.0	0.0	0.000E+00	0.000E+00	1.819E-07
G	3.0	0.46	90000.	0.	112.	1000.0	46.0	0.0	0.000E+00	0.000E+00	1.211E-07
G	3.9	0.85	90000.	0.	112.	1000.0	46.0	0.0	0.000E+00	0.000E+00	9.083E-08
G	4.9	1.27	90000.	0.	112.	1000.0	46.0	0.0	0.000E+00	0.000E+00	7.271E-08
G	5.9	1.27	90000.	0.	112.	1000.0	46.0	0.0	0.000E+00	0.000E+00	6.057E-08
G	7.9	2.64	90000.	0.	112.	1000.0	46.0	0.0	0.000E+00	0.000E+00	4.541E-08
G	9.8	3.20	90000.	0.	112.	1000.0	46.0	0.0	0.000E+00	0.000E+00	3.634E-08
G	24.2	3.30	90000.	0.	112.	1000.0	46.0	0.0	0.000E+00	0.000E+00	1.478E-08

USNRC COMPUTER CODE-PAVAN, VERSION 2.0

RUN DATE: 03/14/07

PLANT NAME: Oyster Creek

METEOROLOGICAL INSTRUMENTATION

DATA PERIOD:

WIND SENSORS HEIGHT: 112 meters

TYPE OF RELEASE: Elevated Release

DELTA-T HEIGHTS: 10.1-115.8 meters

SOURCE OF DATA:

COMMENTS: Oyster Creek, Elevated Release, Stack, 1995-1999 met data

PROGRAM: PAVAN, 10/76, 8/79 REVISION, IMPLEMENTATION OF REGULATORY GUIDE 1.145

## LOW POPULATION ZONE CALCULATIONS:

ENE SECTOR BOUNDARY DISTANCE = 3218.0 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.

1.363E-05	9.048E-06	7.543E-06	5.657E-06	4.665E-06	4.526E-06	4.035E-06	3.772E-06	3.756E-06	3.350E-06
0.024	0.042	0.075	0.140	0.142	0.240	0.271	0.467	0.533	0.565
0.00169	0.00294	0.00522	0.00979	0.00994	0.01679	0.01900	0.03271	0.03729	0.03957
3.005E-06	2.835E-06	2.504E-06	2.415E-06	2.234E-06	1.889E-06	1.882E-06	1.675E-06	1.609E-06	1.416E-06
0.663	0.924	1.022	1.120	1.153	2.590	2.851	2.949	3.079	5.789
0.04643	0.06472	0.07158	0.07843	0.08072	0.18130	0.19959	0.20645	0.21559	0.40533
1.340E-06	1.254E-06	1.206E-06	1.134E-06	1.117E-06	9.656E-07	9.443E-07	9.402E-07	8.741E-07	8.395E-07
5.822	6.377	6.736	10.067	10.230	11.046	15.258	16.434	16.479	16.773
0.40761	0.44648	0.47162	0.70479	0.71622	0.77337	1.06826	1.15056	1.15372	1.17429
8.045E-07	7.526E-07	7.080E-07	6.270E-07	6.031E-07	5.665E-07	5.592E-07	4.848E-07	4.826E-07	4.701E-07
17.915	19.515	26.992	29.768	31.694	35.580	36.037	36.233	36.918	44.461
1.25430	1.36631	1.88980	2.08411	2.21898	2.49101	2.52301	2.53673	2.58474	3.11280
4.193E-07	3.881E-07	3.761E-07	3.629E-07	3.356E-07	3.233E-07	2.903E-07	2.796E-07	2.424E-07	2.419E-07
44.918	45.244	56.509	56.607	57.619	58.076	58.141	58.892	59.970	60.068
3.14480	3.16766	3.95632	3.96318	4.03404	4.06605	4.07062	4.12320	4.19864	4.20549
2.304E-07	2.096E-07	1.976E-07	1.963E-07	1.939E-07	1.819E-07	1.677E-07	1.530E-07	1.481E-07	1.211E-07
62.843	66.141	66.174	66.696	67.251	67.382	73.716	79.920	80.050	80.507
4.39980	4.63068	4.63297	4.66955	4.70841	4.71755	5.16103	5.59537	5.60451	5.63651
1.186E-07	9.879E-08	9.083E-08	7.888E-08	7.406E-08	7.271E-08	6.823E-08	6.057E-08	5.926E-08	4.541E-08
80.573	80.736	81.585	81.879	82.173	83.446	89.127	90.401	90.629	93.274
5.64109	5.65252	5.71195	5.73253	5.75310	5.84225	6.24001	6.32917	6.34517	6.53033
3.634E-08	2.410E-08	1.478E-08							
96.474	96.702	100.000							
6.75436	6.77036	7.00124							

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 = 3.340E-05 DISTANCE = 800.000

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)= 0.037  
 HANDCHECK GRAPH: SLOPE LT -1.0 FOR LOW PERCENTAGES. XSAVE ( 3)= 0.199  
 HANDCHECK GRAPH: SLOPE LT -1.0 FOR LOW PERCENTAGES. XSAVE ( 4)= 0.704  
 HANDCHECK GRAPH: SLOPE LT -1.0 FOR LOW PERCENTAGES. XSAVE ( 5)= 1.149  
 HANDCHECK GRAPH: SLOPE LT -1.0 FOR LOW PERCENTAGES. XSAVE ( 6)= 1.888  
 HANDCHECK GRAPH: SLOPE LT -1.0 FOR LOW PERCENTAGES. XSAVE ( 7)= 3.110  
 HANDCHECK GRAPH: SLOPE LT -1.0 FOR LOW PERCENTAGES. XSAVE ( 8)= 3.953

K	I	XQSAVE(K, I)	XQINT(K, I)	XQSLOP(K, I)
12	1	-11.20349	-18.10866	-1.66547
12	2	-12.49203	-17.21590	-1.40074
12	3	-13.18295	-16.62807	-1.19657
12	4	-13.69019	-16.21945	-1.03015
12	5	-13.87721	-17.16457	-1.44582
12	6	-14.16087	-18.16206	-1.92596
12	7	-14.57036	-18.39428	-2.05049
12	8	-14.79328	NUMXQ(K)= 8	
		2.929E-06	0.070	1.000
		1.846E-06	0.210	3.000
		1.514E-06	0.350	5.000
		1.137E-06	0.700	10.000
		9.743E-07	1.050	15.000
		8.423E-07	1.400	20.000
		7.407E-07	1.750	25.000
		6.509E-07	2.100	30.000
		5.744E-07	2.450	35.000
		5.141E-07	2.800	40.000
		4.649E-07	3.151	45.000
		4.220E-07	3.501	50.000
		3.859E-07	3.851	55.000
		1.310E-06	0.5	7.14

ANNUAL AVERAGE = 1.34E-08

K= 12 FIVEXQ(K)= 1.310E-06 FIVEPR(K)= 7.142

FUMIGATION X/Q AT THE BOUNDARY: 1.68E-05

EXPONENTIAL TERM AND FREQUENCIES

9.937E-01	9.601E-01	8.190E-01	4.773E-01	2.610E-01	2.388E-01	5.166E-02
1.143	4.051	9.732	28.407	54.911	86.568	100.000

USNRC COMPUTER CODE-PAVAN, VERSION 2.0

RUN DATE: 03/14/07

PLANT NAME: Oyster Creek

METEOROLOGICAL INSTRUMENTATION

DATA PERIOD:

WIND SENSORS HEIGHT: 112 meters

TYPE OF RELEASE: Elevated Release

DELTA-T HEIGHTS: 10.1-115.8 meters

SOURCE OF DATA:

COMMENTS: Oyster Creek, Elevated Release, Stack, 1995-1999 met data

PROGRAM: PAVAN, 10/76, 8/79 REVISION, IMPLEMENTATION OF REGULATORY GUIDE 1.145

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

CLASS	METER/SEC	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	USED
AT 112.0 METERS											
A	5.0	0.08	3218.	0.	112.	538.2	1000.0	0.0	0.000E+00	0.000E+00	1.186E-07
A	5.9	0.20	3218.	0.	112.	538.2	1000.0	0.0	0.000E+00	0.000E+00	9.879E-08
A	7.9	0.59	3218.	0.	112.	538.2	1000.0	0.0	0.000E+00	0.000E+00	7.406E-08
A	9.9	0.59	3218.	0.	112.	538.2	1000.0	0.0	0.000E+00	0.000E+00	5.926E-08
A	24.4	0.39	3218.	0.	112.	538.2	1000.0	0.0	0.000E+00	0.000E+00	2.410E-08
B	0.4	0.00	3218.	0.	112.	404.8	392.6	0.0	0.000E+00	0.000E+00	4.665E-06
B	3.0	0.03	3218.	0.	112.	404.8	392.6	0.0	0.000E+00	0.000E+00	6.466E-07
B	4.0	0.14	3218.	0.	112.	404.8	392.6	0.0	0.000E+00	0.000E+00	4.848E-07
B	5.0	0.20	3218.	0.	112.	404.8	392.6	0.0	0.000E+00	0.000E+00	3.881E-07
B	5.9	0.48	3218.	0.	112.	404.8	392.6	0.0	0.000E+00	0.000E+00	3.233E-07
B	7.9	1.30	3218.	0.	112.	404.8	392.6	0.0	0.000E+00	0.000E+00	2.424E-07
B	9.9	0.68	3218.	0.	112.	404.8	392.6	0.0	0.000E+00	0.000E+00	1.939E-07
B	24.4	0.96	3218.	0.	112.	404.8	392.6	0.0	0.000E+00	0.000E+00	7.888E-08
C	3.0	0.14	3218.	0.	112.	307.4	177.2	0.0	0.000E+00	0.000E+00	1.609E-06
C	4.0	0.39	3218.	0.	112.	307.4	177.2	0.0	0.000E+00	0.000E+00	1.206E-06
C	5.0	0.82	3218.	0.	112.	307.4	177.2	0.0	0.000E+00	0.000E+00	9.656E-07
C	5.9	1.30	3218.	0.	112.	307.4	177.2	0.0	0.000E+00	0.000E+00	8.045E-07
C	7.9	2.20	3218.	0.	112.	307.4	177.2	0.0	0.000E+00	0.000E+00	6.031E-07
C	9.9	1.15	3218.	0.	112.	307.4	177.2	0.0	0.000E+00	0.000E+00	4.826E-07
C	24.4	0.84	3218.	0.	112.	307.4	177.2	0.0	0.000E+00	0.000E+00	1.963E-07
D	0.4	0.03	3218.	0.	112.	216.4	68.3	0.0	0.000E+00	0.000E+00	1.363E-05
D	0.7	0.06	3218.	0.	112.	216.4	68.3	0.0	0.000E+00	0.000E+00	7.543E-06
D	1.0	0.11	3218.	0.	112.	216.4	68.3	0.0	0.000E+00	0.000E+00	5.657E-06
D	1.2	0.06	3218.	0.	112.	216.4	68.3	0.0	0.000E+00	0.000E+00	4.526E-06
D	1.5	0.11	3218.	0.	112.	216.4	68.3	0.0	0.000E+00	0.000E+00	3.772E-06
D	2.0	0.39	3218.	0.	112.	216.4	68.3	0.0	0.000E+00	0.000E+00	2.835E-06
D	3.0	1.69	3218.	0.	112.	216.4	68.3	0.0	0.000E+00	0.000E+00	1.889E-06
D	4.0	2.65	3218.	0.	112.	216.4	68.3	0.0	0.000E+00	0.000E+00	1.416E-06
D	5.0	3.24	3218.	0.	112.	216.4	68.3	0.0	0.000E+00	0.000E+00	1.134E-06
D	5.9	4.59	3218.	0.	112.	216.4	68.3	0.0	0.000E+00	0.000E+00	9.443E-07
D	7.9	8.28	3218.	0.	112.	216.4	68.3	0.0	0.000E+00	0.000E+00	7.080E-07
D	9.9	6.45	3218.	0.	112.	216.4	68.3	0.0	0.000E+00	0.000E+00	5.665E-07
D	24.4	4.56	3218.	0.	112.	216.4	68.3	0.0	0.000E+00	0.000E+00	2.304E-07
E	0.4	0.02	7000.	0.	112.	310.5	66.2	0.0	0.000E+00	0.000E+00	9.048E-06
E	1.0	0.08	7000.	0.	112.	310.5	66.2	0.0	0.000E+00	0.000E+00	3.756E-06
E	1.2	0.08	7000.	0.	112.	310.5	66.2	0.0	0.000E+00	0.000E+00	3.005E-06
E	1.5	0.08	7000.	0.	112.	310.5	66.2	0.0	0.000E+00	0.000E+00	2.504E-06
E	2.0	0.23	7000.	0.	112.	310.5	66.2	0.0	0.000E+00	0.000E+00	1.882E-06
E	3.0	0.51	7000.	0.	112.	310.5	66.2	0.0	0.000E+00	0.000E+00	1.254E-06

E	3.9	0.96	7000.	0.	112.	310.5	66.2	0.0	0.000E+00	0.000E+00	9.402E-07
E	4.9	1.15	7000.	0.	112.	310.5	66.2	0.0	0.000E+00	0.000E+00	7.526E-07
E	5.9	2.65	7000.	0.	112.	310.5	66.2	0.0	0.000E+00	0.000E+00	6.270E-07
E	7.9	6.78	7000.	0.	112.	310.5	66.2	0.0	0.000E+00	0.000E+00	4.701E-07
E	9.8	8.76	7000.	0.	112.	310.5	66.2	0.0	0.000E+00	0.000E+00	3.761E-07
E	24.2	4.22	7000.	0.	112.	310.5	66.2	0.0	0.000E+00	0.000E+00	1.530E-07
F	2.0	0.06	90000.	0.	112.	1000.0	92.1	0.0	0.000E+00	0.000E+00	8.395E-07
F	3.0	0.39	90000.	0.	112.	1000.0	92.1	0.0	0.000E+00	0.000E+00	5.592E-07
F	3.9	0.39	90000.	0.	112.	1000.0	92.1	0.0	0.000E+00	0.000E+00	4.193E-07
F	4.9	0.59	90000.	0.	112.	1000.0	92.1	0.0	0.000E+00	0.000E+00	3.356E-07
F	5.9	1.04	90000.	0.	112.	1000.0	92.1	0.0	0.000E+00	0.000E+00	2.796E-07
F	7.9	3.07	90000.	0.	112.	1000.0	92.1	0.0	0.000E+00	0.000E+00	2.096E-07
F	9.8	5.35	90000.	0.	112.	1000.0	92.1	0.0	0.000E+00	0.000E+00	1.677E-07
F	24.2	5.04	90000.	0.	112.	1000.0	92.1	0.0	0.000E+00	0.000E+00	6.823E-08
G	0.4	0.04	90000.	0.	112.	1000.0	46.0	0.0	0.000E+00	0.000E+00	8.741E-07
G	0.7	0.03	90000.	0.	112.	1000.0	46.0	0.0	0.000E+00	0.000E+00	4.839E-07
G	1.0	0.06	90000.	0.	112.	1000.0	46.0	0.0	0.000E+00	0.000E+00	3.629E-07
G	1.2	0.06	90000.	0.	112.	1000.0	46.0	0.0	0.000E+00	0.000E+00	2.903E-07
G	1.5	0.08	90000.	0.	112.	1000.0	46.0	0.0	0.000E+00	0.000E+00	2.419E-07
G	2.0	0.28	90000.	0.	112.	1000.0	46.0	0.0	0.000E+00	0.000E+00	1.819E-07
G	3.0	0.79	90000.	0.	112.	1000.0	46.0	0.0	0.000E+00	0.000E+00	1.211E-07
G	3.9	0.93	90000.	0.	112.	1000.0	46.0	0.0	0.000E+00	0.000E+00	9.083E-08
G	4.9	1.21	90000.	0.	112.	1000.0	46.0	0.0	0.000E+00	0.000E+00	7.271E-08
G	5.9	1.44	90000.	0.	112.	1000.0	46.0	0.0	0.000E+00	0.000E+00	6.057E-08
G	7.9	3.46	90000.	0.	112.	1000.0	46.0	0.0	0.000E+00	0.000E+00	4.541E-08
G	9.8	2.93	90000.	0.	112.	1000.0	46.0	0.0	0.000E+00	0.000E+00	3.634E-08
G	24.2	2.56	90000.	0.	112.	1000.0	46.0	0.0	0.000E+00	0.000E+00	1.478E-08

USNRC COMPUTER CODE-PAVAN, VERSION 2.0

RUN DATE: 03/14/07

PLANT NAME: Oyster Creek

METEOROLOGICAL INSTRUMENTATION

DATA PERIOD:

WIND SENSORS HEIGHT: 112 meters

TYPE OF RELEASE: Elevated Release

DELTA-T HEIGHTS: 10.1-115.8 meters

SOURCE OF DATA:

COMMENTS: Oyster Creek, Elevated Release, Stack, 1995-1999 met data

PROGRAM: PAVAN, 10/76, 8/79 REVISION, IMPLEMENTATION OF REGULATORY GUIDE 1.145

LOW POPULATION ZONE CALCULATIONS:

E SECTOR BOUNDARY DISTANCE = 3218.0 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.

1.363E-05	9.048E-06	7.543E-06	5.657E-06	4.665E-06	4.526E-06	3.772E-06	3.756E-06	3.005E-06	2.835E-06
0.028	0.046	0.102	0.215	0.217	0.273	0.386	0.470	0.555	0.949
0.00225	0.00375	0.00832	0.01746	0.01761	0.02218	0.03132	0.03818	0.04504	0.07704
2.504E-06	1.889E-06	1.882E-06	1.609E-06	1.416E-06	1.254E-06	1.206E-06	1.134E-06	9.656E-07	9.443E-07
1.033	2.722	2.948	3.088	5.735	6.241	6.636	9.873	10.690	15.278
0.08390	0.22106	0.23935	0.25078	0.46566	0.50681	0.53881	0.80170	0.86799	1.24060
9.402E-07	8.741E-07	8.395E-07	8.045E-07	7.526E-07	7.080E-07	6.466E-07	6.270E-07	6.031E-07	5.665E-07
16.236	16.274	16.331	17.626	18.780	27.057	27.085	29.731	31.927	38.374
1.31833	1.32149	1.32606	1.43121	1.52494	2.19701	2.19930	2.41418	2.59249	3.11598
5.592E-07	4.848E-07	4.839E-07	4.826E-07	4.701E-07	4.193E-07	3.881E-07	3.761E-07	3.629E-07	3.356E-07
38.768	38.909	38.937	40.091	46.876	47.270	47.467	56.223	56.279	56.870
3.14798	3.15941	3.16170	3.25542	3.80634	3.83834	3.85435	4.56528	4.56986	4.61786
3.233E-07	2.903E-07	2.796E-07	2.424E-07	2.419E-07	2.304E-07	2.096E-07	1.963E-07	1.939E-07	1.819E-07
57.349	57.405	58.447	59.742	59.826	64.387	67.456	68.300	68.976	69.257
4.65672	4.66130	4.74588	4.85103	4.85789	5.22822	5.47739	5.54597	5.60083	5.62369
1.677E-07	1.530E-07	1.211E-07	1.186E-07	9.879E-08	9.083E-08	7.888E-08	7.406E-08	7.271E-08	6.823E-08
74.606	78.829	79.618	79.702	79.899	80.828	81.785	82.377	83.587	88.626
6.05803	6.40092	6.46493	6.47179	6.48779	6.56323	6.64095	6.68896	6.78725	7.19644
6.057E-08	5.926E-08	4.541E-08	3.634E-08	2.410E-08	1.478E-08				
90.062	90.653	94.116	97.044	97.438	100.000				
7.31303	7.36103	7.64221	7.87995	7.91195	8.11998				

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 = 3.340E-05 DISTANCE = 800.000

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)= 0.077  
 HANDCHECK GRAPH: SLOPE LT -1.0 FOR LOW PERCENTAGES. XSAVE ( 3)= 0.239  
 HANDCHECK GRAPH: SLOPE LT -1.0 FOR LOW PERCENTAGES. XSAVE ( 4)= 1.317  
 HANDCHECK GRAPH: SLOPE LT -1.0 FOR LOW PERCENTAGES. XSAVE ( 5)= 2.195  
 HANDCHECK GRAPH: SLOPE LT -1.0 FOR LOW PERCENTAGES. XSAVE ( 6)= 3.113  
 HANDCHECK GRAPH: SLOPE LT -1.0 FOR LOW PERCENTAGES. XSAVE ( 7)= 3.803  
 HANDCHECK GRAPH: SLOPE LT -1.0 FOR LOW PERCENTAGES. XSAVE ( 8)= 4.562

K	I	XQSAVE(K,I)	XQINT(K,I)	XQSLOP(K,I)
13	1	-11.20349	-18.22218	-1.72039
13	2	-12.77345	-16.52442	-1.18434
13	3	-13.18295	-16.44663	-1.15677
13	4	-13.87721	-16.93403	-1.37619
13	5	-14.16087	-17.14236	-1.47958
13	6	-14.38379	-18.23082	-2.06338
13	7	-14.57036	-19.21798	-2.61984
13	8	-14.79328	NUMXQ(K)= 8	
		2.784E-06	0.081	1.000
		1.870E-06	0.244	3.000
		1.539E-06	0.406	5.000
		1.161E-06	0.812	10.000
		9.741E-07	1.218	15.000
		8.395E-07	1.624	20.000
		7.408E-07	2.030	25.000
		6.637E-07	2.436	30.000
		6.015E-07	2.842	35.000
		5.453E-07	3.248	40.000
		4.886E-07	3.654	45.000
		4.347E-07	4.060	50.000
		3.866E-07	4.466	55.000
		1.418E-06	0.5	6.16

ANNUAL AVERAGE = 1.69E-08

K= 13 FIVEXQ(K)= 1.418E-06 FIVEPR(K)= 6.158

FUMIGATION X/Q AT THE BOUNDARY: 1.68E-05

EXPONENTIAL TERM AND FREQUENCIES

9.937E-01	9.601E-01	8.190E-01	4.773E-01	2.610E-01	2.388E-01	5.166E-02
1.858	5.632	12.473	28.408	60.614	86.138	100.000

USNRC COMPUTER CODE-PAVAN, VERSION 2.0

RUN DATE: 03/14/07

PLANT NAME: Oyster Creek

METEOROLOGICAL INSTRUMENTATION

DATA PERIOD:

WIND SENSORS HEIGHT: 112 meters

TYPE OF RELEASE: Elevated Release

DELTA-T HEIGHTS: 10.1-115.8 meters

SOURCE OF DATA:

COMMENTS: Oyster Creek, Elevated Release, Stack, 1995-1999 met data

PROGRAM: PAVAN, 10/76, 8/79 REVISION, IMPLEMENTATION OF REGULATORY GUIDE 1.145

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

CLASS	METER/SEC	PERCENT	METERS	METERS	METERS	SIGMA-Y METERS	SIGMA-Z METERS	MEANDER-SY METERS	** CHI/Q VALUES (SEC/CUBIC METER)		
									MEANDER	BLDG WAKE	USED
AT 112.0 METERS											
A	3.0	0.02	3218.	0.	112.	538.2	1000.0	0.0	0.000E+00	0.000E+00	1.976E-07
A	4.0	0.06	3218.	0.	112.	538.2	1000.0	0.0	0.000E+00	0.000E+00	1.481E-07
A	5.0	0.04	3218.	0.	112.	538.2	1000.0	0.0	0.000E+00	0.000E+00	1.186E-07
A	5.9	0.06	3218.	0.	112.	538.2	1000.0	0.0	0.000E+00	0.000E+00	9.879E-08
A	7.9	0.73	3218.	0.	112.	538.2	1000.0	0.0	0.000E+00	0.000E+00	7.406E-08
A	9.9	0.99	3218.	0.	112.	538.2	1000.0	0.0	0.000E+00	0.000E+00	5.926E-08
A	24.4	0.97	3218.	0.	112.	538.2	1000.0	0.0	0.000E+00	0.000E+00	2.410E-08
B	0.4	0.00	3218.	0.	112.	404.8	392.6	0.0	0.000E+00	0.000E+00	4.665E-06
B	4.0	0.02	3218.	0.	112.	404.8	392.6	0.0	0.000E+00	0.000E+00	4.848E-07
B	5.0	0.16	3218.	0.	112.	404.8	392.6	0.0	0.000E+00	0.000E+00	3.881E-07
B	5.9	0.40	3218.	0.	112.	404.8	392.6	0.0	0.000E+00	0.000E+00	3.233E-07
B	7.9	1.03	3218.	0.	112.	404.8	392.6	0.0	0.000E+00	0.000E+00	2.424E-07
B	9.9	1.44	3218.	0.	112.	404.8	392.6	0.0	0.000E+00	0.000E+00	1.939E-07
B	24.4	1.50	3218.	0.	112.	404.8	392.6	0.0	0.000E+00	0.000E+00	7.888E-08
C	3.0	0.08	3218.	0.	112.	307.4	177.2	0.0	0.000E+00	0.000E+00	1.609E-06
C	4.0	0.36	3218.	0.	112.	307.4	177.2	0.0	0.000E+00	0.000E+00	1.206E-06
C	5.0	0.61	3218.	0.	112.	307.4	177.2	0.0	0.000E+00	0.000E+00	9.656E-07
C	5.9	0.81	3218.	0.	112.	307.4	177.2	0.0	0.000E+00	0.000E+00	8.045E-07
C	7.9	2.00	3218.	0.	112.	307.4	177.2	0.0	0.000E+00	0.000E+00	6.031E-07
C	9.9	2.16	3218.	0.	112.	307.4	177.2	0.0	0.000E+00	0.000E+00	4.826E-07
C	24.4	2.75	3218.	0.	112.	307.4	177.2	0.0	0.000E+00	0.000E+00	1.963E-07
D	0.4	0.00	3218.	0.	112.	216.4	68.3	0.0	0.000E+00	0.000E+00	1.363E-05
D	1.2	0.02	3218.	0.	112.	216.4	68.3	0.0	0.000E+00	0.000E+00	4.526E-06
D	1.5	0.08	3218.	0.	112.	216.4	68.3	0.0	0.000E+00	0.000E+00	3.772E-06
D	2.0	0.24	3218.	0.	112.	216.4	68.3	0.0	0.000E+00	0.000E+00	2.835E-06
D	3.0	1.29	3218.	0.	112.	216.4	68.3	0.0	0.000E+00	0.000E+00	1.889E-06
D	4.0	1.88	3218.	0.	112.	216.4	68.3	0.0	0.000E+00	0.000E+00	1.416E-06
D	5.0	2.81	3218.	0.	112.	216.4	68.3	0.0	0.000E+00	0.000E+00	1.134E-06
D	5.9	3.32	3218.	0.	112.	216.4	68.3	0.0	0.000E+00	0.000E+00	9.443E-07
D	7.9	7.50	3218.	0.	112.	216.4	68.3	0.0	0.000E+00	0.000E+00	7.080E-07
D	9.9	7.44	3218.	0.	112.	216.4	68.3	0.0	0.000E+00	0.000E+00	5.665E-07
D	24.4	10.27	3218.	0.	112.	216.4	68.3	0.0	0.000E+00	0.000E+00	2.304E-07
E	0.4	0.01	7000.	0.	112.	310.5	66.2	0.0	0.000E+00	0.000E+00	9.048E-06
E	0.7	0.02	7000.	0.	112.	310.5	66.2	0.0	0.000E+00	0.000E+00	5.009E-06
E	1.0	0.04	7000.	0.	112.	310.5	66.2	0.0	0.000E+00	0.000E+00	3.756E-06
E	1.2	0.06	7000.	0.	112.	310.5	66.2	0.0	0.000E+00	0.000E+00	3.005E-06
E	1.5	0.04	7000.	0.	112.	310.5	66.2	0.0	0.000E+00	0.000E+00	2.504E-06
E	2.0	0.12	7000.	0.	112.	310.5	66.2	0.0	0.000E+00	0.000E+00	1.882E-06
E	3.0	0.65	7000.	0.	112.	310.5	66.2	0.0	0.000E+00	0.000E+00	1.254E-06



E	3.9	0.57	7000.	0.	112.	310.5	66.2	0.0	0.000E+00	0.000E+00	9.402E-07
E	4.9	0.95	7000.	0.	112.	310.5	66.2	0.0	0.000E+00	0.000E+00	7.526E-07
E	5.9	1.50	7000.	0.	112.	310.5	66.2	0.0	0.000E+00	0.000E+00	6.270E-07
E	7.9	6.01	7000.	0.	112.	310.5	66.2	0.0	0.000E+00	0.000E+00	4.701E-07
E	9.8	10.39	7000.	0.	112.	310.5	66.2	0.0	0.000E+00	0.000E+00	3.761E-07
E	24.2	6.39	7000.	0.	112.	310.5	66.2	0.0	0.000E+00	0.000E+00	1.530E-07
F	0.4	0.01	90000.	0.	112.	1000.0	92.1	0.0	0.000E+00	0.000E+00	4.035E-06
F	0.7	0.02	90000.	0.	112.	1000.0	92.1	0.0	0.000E+00	0.000E+00	2.234E-06
F	1.0	0.04	90000.	0.	112.	1000.0	92.1	0.0	0.000E+00	0.000E+00	1.675E-06
F	1.5	0.04	90000.	0.	112.	1000.0	92.1	0.0	0.000E+00	0.000E+00	1.117E-06
F	2.0	0.04	90000.	0.	112.	1000.0	92.1	0.0	0.000E+00	0.000E+00	8.395E-07
F	3.0	0.16	90000.	0.	112.	1000.0	92.1	0.0	0.000E+00	0.000E+00	5.592E-07
F	3.9	0.55	90000.	0.	112.	1000.0	92.1	0.0	0.000E+00	0.000E+00	4.193E-07
F	4.9	0.59	90000.	0.	112.	1000.0	92.1	0.0	0.000E+00	0.000E+00	3.356E-07
F	5.9	1.07	90000.	0.	112.	1000.0	92.1	0.0	0.000E+00	0.000E+00	2.796E-07
F	7.9	3.52	90000.	0.	112.	1000.0	92.1	0.0	0.000E+00	0.000E+00	2.096E-07
F	9.8	4.06	90000.	0.	112.	1000.0	92.1	0.0	0.000E+00	0.000E+00	1.677E-07
F	24.2	2.97	90000.	0.	112.	1000.0	92.1	0.0	0.000E+00	0.000E+00	6.823E-08
G	0.4	0.02	90000.	0.	112.	1000.0	46.0	0.0	0.000E+00	0.000E+00	8.741E-07
G	1.0	0.02	90000.	0.	112.	1000.0	46.0	0.0	0.000E+00	0.000E+00	3.629E-07
G	1.2	0.04	90000.	0.	112.	1000.0	46.0	0.0	0.000E+00	0.000E+00	2.903E-07
G	1.5	0.04	90000.	0.	112.	1000.0	46.0	0.0	0.000E+00	0.000E+00	2.419E-07
G	2.0	0.12	90000.	0.	112.	1000.0	46.0	0.0	0.000E+00	0.000E+00	1.819E-07
G	3.0	0.57	90000.	0.	112.	1000.0	46.0	0.0	0.000E+00	0.000E+00	1.211E-07
G	3.9	0.49	90000.	0.	112.	1000.0	46.0	0.0	0.000E+00	0.000E+00	9.083E-08
G	4.9	0.83	90000.	0.	112.	1000.0	46.0	0.0	0.000E+00	0.000E+00	7.271E-08
G	5.9	1.05	90000.	0.	112.	1000.0	46.0	0.0	0.000E+00	0.000E+00	6.057E-08
G	7.9	2.57	90000.	0.	112.	1000.0	46.0	0.0	0.000E+00	0.000E+00	4.541E-08
G	9.8	2.04	90000.	0.	112.	1000.0	46.0	0.0	0.000E+00	0.000E+00	3.634E-08
G	24.2	1.33	90000.	0.	112.	1000.0	46.0	0.0	0.000E+00	0.000E+00	1.478E-08

USNRC COMPUTER CODE-PAVAN, VERSION 2.0

RUN DATE: 03/14/07

PLANT NAME: Oyster Creek

METEOROLOGICAL INSTRUMENTATION

DATA PERIOD:

WIND SENSORS HEIGHT: 112 meters

TYPE OF RELEASE: Elevated Release

DELTA-T HEIGHTS: 10.1-115.8 meters

SOURCE OF DATA:

COMMENTS: Oyster Creek, Elevated Release, Stack, 1995-1999 met data

PROGRAM: PAVAN, 10/76, 8/79 REVISION, IMPLEMENTATION OF REGULATORY GUIDE 1.145

LOW POPULATION ZONE CALCULATIONS:

ESE SECTOR BOUNDARY DISTANCE = 3218.0 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.

1.363E-05	9.048E-06	5.009E-06	4.665E-06	4.526E-06	4.035E-06	3.772E-06	3.756E-06	3.005E-06	2.835E-06
0.002	0.016	0.036	0.037	0.057	0.067	0.148	0.188	0.249	0.492
0.00028	0.00178	0.00406	0.00420	0.00649	0.00759	0.01674	0.02131	0.02817	0.05560
2.504E-06	2.234E-06	1.889E-06	1.882E-06	1.675E-06	1.609E-06	1.416E-06	1.254E-06	1.206E-06	1.134E-06
0.532	0.552	1.847	1.968	2.008	2.089	3.970	4.617	4.981	7.792
0.06017	0.06246	0.20876	0.22247	0.22705	0.23619	0.44879	0.52194	0.56308	0.88084
1.117E-06	9.656E-07	9.443E-07	9.402E-07	8.741E-07	8.395E-07	8.045E-07	7.526E-07	7.080E-07	6.270E-07
7.832	8.439	11.755	12.322	12.338	12.379	13.188	14.138	21.640	23.137
0.88541	0.95399	1.32889	1.39289	1.39479	1.39936	1.49080	1.59824	2.44634	2.61550
6.031E-07	5.665E-07	5.592E-07	4.848E-07	4.826E-07	4.701E-07	4.193E-07	3.881E-07	3.761E-07	3.629E-07
25.139	32.580	32.742	32.762	34.926	40.932	41.478	41.640	52.034	52.054
2.84181	3.68305	3.70134	3.70362	3.94822	4.62716	4.68888	4.70717	5.88216	5.88444
3.356E-07	3.233E-07	2.903E-07	2.796E-07	2.424E-07	2.419E-07	2.304E-07	2.096E-07	1.976E-07	1.963E-07
52.640	53.045	53.085	54.157	55.188	55.229	65.502	69.020	69.040	71.791
5.95074	5.99646	6.00103	6.12219	6.23877	6.24334	7.40462	7.80238	7.80466	8.11556
1.939E-07	1.819E-07	1.677E-07	1.530E-07	1.481E-07	1.211E-07	1.186E-07	9.879E-08	9.083E-08	7.888E-08
73.226	73.348	77.412	83.802	83.863	84.429	84.470	84.530	85.016	86.512
8.27786	8.29158	8.75106	9.47343	9.48028	9.54429	9.54886	9.55572	9.61059	9.77975
7.406E-08	7.271E-08	6.823E-08	6.057E-08	5.926E-08	4.541E-08	3.634E-08	2.410E-08	1.478E-08	
87.240	88.069	91.042	92.093	93.084	95.652	97.695	98.665	100.000	
9.86204	9.95577	10.29181	10.41068	10.52269	10.81301	11.04389	11.15362	11.30449	

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 = 3.340E-05 DISTANCE = 800.000

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)= 0.056  
 HANDCHECK GRAPH: SLOPE LT -1.0 FOR LOW PERCENTAGES. XSAVE ( 5)= 0.880  
 HANDCHECK GRAPH: SLOPE LT -1.0 FOR LOW PERCENTAGES. XSAVE ( 6)= 1.391  
 HANDCHECK GRAPH: SLOPE LT -1.0 FOR LOW PERCENTAGES. XSAVE ( 7)= 2.444  
 HANDCHECK GRAPH: SLOPE LT -1.0 FOR LOW PERCENTAGES. XSAVE ( 8)= 3.680  
 HANDCHECK GRAPH: SLOPE LT -1.0 FOR LOW PERCENTAGES. XSAVE ( 9)= 4.624  
 HANDCHECK GRAPH: SLOPE LT -1.0 FOR LOW PERCENTAGES. XSAVE (10)= 5.878

K	I	XQSAVE(K, I)	XQINT(K, I)	XQSLOP(K, I)
14	1	-11.20349	-15.79801	-1.01213
14	2	-11.61299	-17.10260	-1.32764
14	3	-12.77345	-15.98293	-0.98426
14	4	-13.18295	-16.24829	-1.07754
14	5	-13.69019	-16.23765	-1.07306
14	6	-13.87721	-16.58935	-1.23294
14	7	-14.16087	-16.59278	-1.23469
14	8	-14.38379	-17.51477	-1.75002
14	9	-14.57036	-17.76423	-1.89829
14	10	-14.79328	NUMXQ(K)= 10	
		2.313E-06	0.113	1.000
		1.624E-06	0.339	3.000
		1.346E-06	0.565	5.000
		1.025E-06	1.130	10.000
		8.538E-07	1.696	15.000
		7.377E-07	2.261	20.000
		6.556E-07	2.826	25.000
		5.933E-07	3.391	30.000
		5.347E-07	3.957	35.000
		4.792E-07	4.522	40.000
		4.310E-07	5.087	45.000
		3.906E-07	5.652	50.000
		1.409E-06	0.5	4.42

ANNUAL AVERAGE = 2.12E-08

K= 14 FIVEXQ(K)= 1.409E-06 FIVEPR(K)= 4.423

FUMIGATION X/Q AT THE BOUNDARY: 1.68E-05

EXPONENTIAL TERM AND FREQUENCIES

9.937E-01	9.601E-01	8.190E-01	4.773E-01	2.610E-01	2.388E-01	5.166E-02
2.871	7.423	16.199	29.272	64.137	90.883	100.000

USNRC COMPUTER CODE-PAVAN, VERSION 2.0

RUN DATE: 03/14/07

PLANT NAME: Oyster Creek

METEOROLOGICAL INSTRUMENTATION

DATA PERIOD:

WIND SENSORS HEIGHT: 112 meters

TYPE OF RELEASE: Elevated Release

DELTA-T HEIGHTS: 10.1-115.8 meters

SOURCE OF DATA:

COMMENTS: Oyster Creek, Elevated Release, Stack, 1995-1999 met data

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	FREQUENCY PERCENT	DISTANCE METERS	TERRAIN METERS	HT EFF METERS	PLUME HT METERS	SIGMA-Y METERS	SIGMA-Z METERS	MEANDER-SY METERS	** CHI/Q VALUES (SEC/CUBIC METER)		
										MEANDER	BLDG WAKE	USED
AT 112.0 METERS												
A	4.0	0.02	3218.	0.	112.	538.2	1000.0	0.0	0.000E+00	0.000E+00	1.481E-07	
A	5.0	0.02	3218.	0.	112.	538.2	1000.0	0.0	0.000E+00	0.000E+00	1.186E-07	
A	5.9	0.09	3218.	0.	112.	538.2	1000.0	0.0	0.000E+00	0.000E+00	9.879E-08	
A	7.9	0.64	3218.	0.	112.	538.2	1000.0	0.0	0.000E+00	0.000E+00	7.406E-08	
A	9.9	0.94	3218.	0.	112.	538.2	1000.0	0.0	0.000E+00	0.000E+00	5.926E-08	
A	24.4	1.19	3218.	0.	112.	538.2	1000.0	0.0	0.000E+00	0.000E+00	2.410E-08	
B	0.4	0.00	3218.	0.	112.	404.8	392.6	0.0	0.000E+00	0.000E+00	4.665E-06	
B	4.0	0.02	3218.	0.	112.	404.8	392.6	0.0	0.000E+00	0.000E+00	4.848E-07	
B	5.0	0.21	3218.	0.	112.	404.8	392.6	0.0	0.000E+00	0.000E+00	3.881E-07	
B	5.9	0.55	3218.	0.	112.	404.8	392.6	0.0	0.000E+00	0.000E+00	3.233E-07	
B	7.9	1.55	3218.	0.	112.	404.8	392.6	0.0	0.000E+00	0.000E+00	2.424E-07	
B	9.9	1.32	3218.	0.	112.	404.8	392.6	0.0	0.000E+00	0.000E+00	1.939E-07	
B	24.4	1.26	3218.	0.	112.	404.8	392.6	0.0	0.000E+00	0.000E+00	7.888E-08	
C	2.0	0.09	3218.	0.	112.	307.4	177.2	0.0	0.000E+00	0.000E+00	2.415E-06	
C	3.0	0.09	3218.	0.	112.	307.4	177.2	0.0	0.000E+00	0.000E+00	1.609E-06	
C	4.0	0.23	3218.	0.	112.	307.4	177.2	0.0	0.000E+00	0.000E+00	1.206E-06	
C	5.0	0.83	3218.	0.	112.	307.4	177.2	0.0	0.000E+00	0.000E+00	9.656E-07	
C	5.9	1.11	3218.	0.	112.	307.4	177.2	0.0	0.000E+00	0.000E+00	8.045E-07	
C	7.9	2.15	3218.	0.	112.	307.4	177.2	0.0	0.000E+00	0.000E+00	6.031E-07	
C	9.9	1.92	3218.	0.	112.	307.4	177.2	0.0	0.000E+00	0.000E+00	4.826E-07	
C	24.4	2.04	3218.	0.	112.	307.4	177.2	0.0	0.000E+00	0.000E+00	1.963E-07	
D	0.4	0.03	3218.	0.	112.	216.4	68.3	0.0	0.000E+00	0.000E+00	1.363E-05	
D	0.7	0.04	3218.	0.	112.	216.4	68.3	0.0	0.000E+00	0.000E+00	7.543E-06	
D	1.0	0.06	3218.	0.	112.	216.4	68.3	0.0	0.000E+00	0.000E+00	5.657E-06	
D	1.2	0.11	3218.	0.	112.	216.4	68.3	0.0	0.000E+00	0.000E+00	4.526E-06	
D	1.5	0.17	3218.	0.	112.	216.4	68.3	0.0	0.000E+00	0.000E+00	3.772E-06	
D	2.0	0.49	3218.	0.	112.	216.4	68.3	0.0	0.000E+00	0.000E+00	2.835E-06	
D	3.0	1.30	3218.	0.	112.	216.4	68.3	0.0	0.000E+00	0.000E+00	1.889E-06	
D	4.0	2.66	3218.	0.	112.	216.4	68.3	0.0	0.000E+00	0.000E+00	1.416E-06	
D	5.0	3.66	3218.	0.	112.	216.4	68.3	0.0	0.000E+00	0.000E+00	1.134E-06	
D	5.9	4.07	3218.	0.	112.	216.4	68.3	0.0	0.000E+00	0.000E+00	9.443E-07	
D	7.9	8.24	3218.	0.	112.	216.4	68.3	0.0	0.000E+00	0.000E+00	7.080E-07	
D	9.9	7.17	3218.	0.	112.	216.4	68.3	0.0	0.000E+00	0.000E+00	5.665E-07	
D	24.4	8.09	3218.	0.	112.	216.4	68.3	0.0	0.000E+00	0.000E+00	2.304E-07	
E	0.4	0.01	7000.	0.	112.	310.5	66.2	0.0	0.000E+00	0.000E+00	9.048E-06	
E	0.7	0.02	7000.	0.	112.	310.5	66.2	0.0	0.000E+00	0.000E+00	5.009E-06	
E	1.0	0.04	7000.	0.	112.	310.5	66.2	0.0	0.000E+00	0.000E+00	3.756E-06	
E	1.2	0.04	7000.	0.	112.	310.5	66.2	0.0	0.000E+00	0.000E+00	3.005E-06	
E	1.5	0.11	7000.	0.	112.	310.5	66.2	0.0	0.000E+00	0.000E+00	2.504E-06	

CA= 957.SQ.METERS

E	2.0	0.13	7000.	0.	112.	310.5	66.2	0.0	0.000E+00	0.000E+00	1.882E-06
E	3.0	0.43	7000.	0.	112.	310.5	66.2	0.0	0.000E+00	0.000E+00	1.254E-06
E	3.9	0.74	7000.	0.	112.	310.5	66.2	0.0	0.000E+00	0.000E+00	9.402E-07
E	4.9	1.28	7000.	0.	112.	310.5	66.2	0.0	0.000E+00	0.000E+00	7.526E-07
E	5.9	1.60	7000.	0.	112.	310.5	66.2	0.0	0.000E+00	0.000E+00	6.270E-07
E	7.9	6.56	7000.	0.	112.	310.5	66.2	0.0	0.000E+00	0.000E+00	4.701E-07
E	9.8	8.73	7000.	0.	112.	310.5	66.2	0.0	0.000E+00	0.000E+00	3.761E-07
E	24.2	4.60	7000.	0.	112.	310.5	66.2	0.0	0.000E+00	0.000E+00	1.530E-07
F	0.4	0.01	90000.	0.	112.	1000.0	92.1	0.0	0.000E+00	0.000E+00	4.035E-06
F	0.7	0.02	90000.	0.	112.	1000.0	92.1	0.0	0.000E+00	0.000E+00	2.234E-06
F	1.0	0.02	90000.	0.	112.	1000.0	92.1	0.0	0.000E+00	0.000E+00	1.675E-06
F	1.2	0.04	90000.	0.	112.	1000.0	92.1	0.0	0.000E+00	0.000E+00	1.340E-06
F	1.5	0.02	90000.	0.	112.	1000.0	92.1	0.0	0.000E+00	0.000E+00	1.117E-06
F	2.0	0.11	90000.	0.	112.	1000.0	92.1	0.0	0.000E+00	0.000E+00	8.395E-07
F	3.0	0.32	90000.	0.	112.	1000.0	92.1	0.0	0.000E+00	0.000E+00	5.592E-07
F	3.9	0.51	90000.	0.	112.	1000.0	92.1	0.0	0.000E+00	0.000E+00	4.193E-07
F	4.9	0.66	90000.	0.	112.	1000.0	92.1	0.0	0.000E+00	0.000E+00	3.356E-07
F	5.9	1.04	90000.	0.	112.	1000.0	92.1	0.0	0.000E+00	0.000E+00	2.796E-07
F	7.9	3.00	90000.	0.	112.	1000.0	92.1	0.0	0.000E+00	0.000E+00	2.096E-07
F	9.8	4.87	90000.	0.	112.	1000.0	92.1	0.0	0.000E+00	0.000E+00	1.677E-07
F	24.2	4.19	90000.	0.	112.	1000.0	92.1	0.0	0.000E+00	0.000E+00	6.823E-08
G	0.4	0.01	90000.	0.	112.	1000.0	46.0	0.0	0.000E+00	0.000E+00	8.741E-07
G	1.0	0.02	90000.	0.	112.	1000.0	46.0	0.0	0.000E+00	0.000E+00	3.629E-07
G	1.2	0.02	90000.	0.	112.	1000.0	46.0	0.0	0.000E+00	0.000E+00	2.903E-07
G	1.5	0.02	90000.	0.	112.	1000.0	46.0	0.0	0.000E+00	0.000E+00	2.419E-07
G	2.0	0.11	90000.	0.	112.	1000.0	46.0	0.0	0.000E+00	0.000E+00	1.819E-07
G	3.0	0.34	90000.	0.	112.	1000.0	46.0	0.0	0.000E+00	0.000E+00	1.211E-07
G	3.9	0.66	90000.	0.	112.	1000.0	46.0	0.0	0.000E+00	0.000E+00	9.083E-08
G	4.9	0.94	90000.	0.	112.	1000.0	46.0	0.0	0.000E+00	0.000E+00	7.271E-08
G	5.9	1.36	90000.	0.	112.	1000.0	46.0	0.0	0.000E+00	0.000E+00	6.057E-08
G	7.9	2.62	90000.	0.	112.	1000.0	46.0	0.0	0.000E+00	0.000E+00	4.541E-08
G	9.8	1.92	90000.	0.	112.	1000.0	46.0	0.0	0.000E+00	0.000E+00	3.634E-08
G	24.2	0.53	90000.	0.	112.	1000.0	46.0	0.0	0.000E+00	0.000E+00	1.478E-08

USNRC COMPUTER CODE-PAVAN, VERSION 2.0

RUN DATE: 03/14/07

PLANT NAME: Oyster Creek

METEOROLOGICAL INSTRUMENTATION

DATA PERIOD:

WIND SENSORS HEIGHT: 112 meters

TYPE OF RELEASE: Elevated Release

DELTA-T HEIGHTS: 10.1-115.8 meters

SOURCE OF DATA:

COMMENTS: Oyster Creek, Elevated Release, Stack, 1995-1999 met data

PROGRAM: PAVAN, 10/76, 8/79 REVISION, IMPLEMENTATION OF REGULATORY GUIDE 1.145

LOW POPULATION ZONE CALCULATIONS:

SE SECTOR BOUNDARY DISTANCE = 3218.0 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.

1.363E-05	9.048E-06	7.543E-06	5.657E-06	5.009E-06	4.665E-06	4.526E-06	4.035E-06	3.772E-06	3.756E-06
0.026	0.038	0.080	0.144	0.166	0.167	0.273	0.287	0.457	0.500
0.00282	0.00406	0.00864	0.01549	0.01778	0.01792	0.02935	0.03082	0.04911	0.05368
3.005E-06	2.835E-06	2.504E-06	2.415E-06	2.234E-06	1.889E-06	1.882E-06	1.675E-06	1.609E-06	1.416E-06
0.542	1.032	1.138	1.224	1.245	2.543	2.671	2.692	2.777	5.438
0.05825	0.11083	0.12226	0.13140	0.13369	0.27313	0.28685	0.28914	0.29828	0.58403
1.340E-06	1.254E-06	1.206E-06	1.134E-06	1.117E-06	9.656E-07	9.443E-07	9.402E-07	8.741E-07	8.395E-07
5.481	5.906	6.140	9.802	9.823	10.653	14.719	15.464	15.475	15.582
0.58860	0.63432	0.65946	1.05265	1.05494	1.14409	1.58071	1.66072	1.66198	1.67341
8.045E-07	7.526E-07	7.080E-07	6.270E-07	6.031E-07	5.665E-07	5.592E-07	4.848E-07	4.826E-07	4.701E-07
16.689	17.966	26.203	27.800	29.949	37.123	37.442	37.463	39.379	45.935
1.79229	1.92944	2.81412	2.98556	3.21645	3.98682	4.02111	4.02340	4.22914	4.93322
4.193E-07	3.881E-07	3.761E-07	3.629E-07	3.356E-07	3.233E-07	2.903E-07	2.796E-07	2.424E-07	2.419E-07
46.446	46.659	55.386	55.407	56.067	56.620	56.641	57.684	59.238	59.260
4.98808	5.01094	5.94819	5.95048	6.02134	6.08078	6.08306	6.19507	6.36195	6.36424
2.304E-07	2.096E-07	1.963E-07	1.939E-07	1.819E-07	1.677E-07	1.530E-07	1.481E-07	1.211E-07	1.186E-07
67.348	70.349	72.393	73.712	73.819	78.693	83.291	83.312	83.653	83.674
7.23291	7.55523	7.77468	7.91641	7.92784	8.45133	8.94510	8.94739	8.98396	8.98625
9.879E-08	9.083E-08	7.888E-08	7.406E-08	7.271E-08	6.823E-08	6.057E-08	5.926E-08	4.541E-08	3.634E-08
83.759	84.419	85.675	86.313	87.250	91.443	92.806	93.742	96.360	98.276
8.99539	9.06626	9.20113	9.26971	9.37029	9.82063	9.96693	10.06752	10.34869	10.55443
2.410E-08	1.478E-08								
99.468	100.000								
10.68244	10.73959								

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 = 3.340E-05 DISTANCE = 800.000

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)= 0.054  
 HANDCHECK GRAPH: SLOPE LT -1.0 FOR LOW PERCENTAGES. XSAVE ( 3)= 0.111  
 HANDCHECK GRAPH: SLOPE LT -1.0 FOR LOW PERCENTAGES. XSAVE ( 4)= 0.583  
 HANDCHECK GRAPH: SLOPE LT -1.0 FOR LOW PERCENTAGES. XSAVE ( 5)= 1.051  
 HANDCHECK GRAPH: SLOPE LT -1.0 FOR LOW PERCENTAGES. XSAVE ( 6)= 1.659  
 HANDCHECK GRAPH: SLOPE LT -1.0 FOR LOW PERCENTAGES. XSAVE ( 7)= 2.811  
 HANDCHECK GRAPH: SLOPE LT -1.0 FOR LOW PERCENTAGES. XSAVE ( 8)= 3.983  
 HANDCHECK GRAPH: SLOPE LT -1.0 FOR LOW PERCENTAGES. XSAVE ( 9)= 4.930  
 HANDCHECK GRAPH: SLOPE LT -1.0 FOR LOW PERCENTAGES. XSAVE (10)= 5.944

K	I	XQSAVE(K,I)	XQINT(K,I)	XQSLOP(K,I)
15	1	-11.20349	-18.06068	-1.70257
15	2	-12.49203	-16.85711	-1.33459
15	3	-12.77345	-16.72358	-1.29095
15	4	-13.46772	-16.08237	-1.03671
15	5	-13.69019	-16.12078	-1.05336
15	6	-13.87721	-16.61523	-1.28550
15	7	-14.16087	-16.87769	-1.42297
15	8	-14.38379	-17.62498	-1.84935
15	9	-14.57036	-18.56123	-2.41619
15	10	-14.79328	NUMXQ(K)= 10	
		2.871E-06	0.107	1.000
		1.839E-06	0.322	3.000
		1.471E-06	0.537	5.000
		1.124E-06	1.074	10.000
		9.523E-07	1.611	15.000
		8.211E-07	2.148	20.000
		7.268E-07	2.685	25.000
		6.503E-07	3.222	30.000
		5.888E-07	3.759	35.000
		5.311E-07	4.296	40.000
		4.788E-07	4.833	45.000
		4.254E-07	5.370	50.000
		3.794E-07	5.907	55.000
		1.518E-06	0.5	4.66

ANNUAL AVERAGE = 2.31E-08

K= 15 FIVEXQ(K)= 1.518E-06 FIVEPR(K)= 4.656

FUMIGATION X/Q AT THE BOUNDARY: 1.68E-05

EXPONENTIAL TERM AND FREQUENCIES

9.937E-01	9.601E-01	8.190E-01	4.773E-01	2.610E-01	2.388E-01	5.166E-02
2.895	7.813	16.263	31.092	67.176	91.453	100.000

USNRC COMPUTER CODE-PAVAN, VERSION 2.0

RUN DATE: 03/14/07

PLANT NAME: Oyster Creek

METEOROLOGICAL INSTRUMENTATION

DATA PERIOD:

WIND SENSORS HEIGHT: 112 meters

TYPE OF RELEASE: Elevated Release

DELTA-T HEIGHTS: 10.1-115.8 meters

SOURCE OF DATA:

COMMENTS: Oyster Creek, Elevated Release, Stack, 1995-1999 met data

PROGRAM: PAVAN, 10/76, 8/79 REVISION, IMPLEMENTATION OF REGULATORY GUIDE 1.145

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

CLASS	METER/SEC	PERCENT	METERS	METERS	METERS	SIGMA-Y METERS	SIGMA-Z METERS	MEANDER-SY METERS	** CHI/Q VALUES (SEC/CUBIC METER)		
									MEANDER	BLDG WAKE	USED
									CA= 957.SQ.METERS		
AT 112.0 METERS											
A	2.0	0.03	3218.	0.	112.	538.2	1000.0	0.0	0.000E+00	0.000E+00	2.966E-07
A	4.0	0.03	3218.	0.	112.	538.2	1000.0	0.0	0.000E+00	0.000E+00	1.481E-07
A	5.0	0.03	3218.	0.	112.	538.2	1000.0	0.0	0.000E+00	0.000E+00	1.186E-07
A	7.9	0.13	3218.	0.	112.	538.2	1000.0	0.0	0.000E+00	0.000E+00	7.406E-08
A	9.9	0.20	3218.	0.	112.	538.2	1000.0	0.0	0.000E+00	0.000E+00	5.926E-08
A	24.4	0.07	3218.	0.	112.	538.2	1000.0	0.0	0.000E+00	0.000E+00	2.410E-08
B	0.4	0.00	3218.	0.	112.	404.8	392.6	0.0	0.000E+00	0.000E+00	4.665E-06
B	3.0	0.03	3218.	0.	112.	404.8	392.6	0.0	0.000E+00	0.000E+00	6.466E-07
B	4.0	0.03	3218.	0.	112.	404.8	392.6	0.0	0.000E+00	0.000E+00	4.848E-07
B	5.0	0.17	3218.	0.	112.	404.8	392.6	0.0	0.000E+00	0.000E+00	3.881E-07
B	5.9	0.30	3218.	0.	112.	404.8	392.6	0.0	0.000E+00	0.000E+00	3.233E-07
B	7.9	0.74	3218.	0.	112.	404.8	392.6	0.0	0.000E+00	0.000E+00	2.424E-07
B	9.9	0.54	3218.	0.	112.	404.8	392.6	0.0	0.000E+00	0.000E+00	1.939E-07
B	24.4	0.24	3218.	0.	112.	404.8	392.6	0.0	0.000E+00	0.000E+00	7.888E-08
C	3.0	0.10	3218.	0.	112.	307.4	177.2	0.0	0.000E+00	0.000E+00	1.609E-06
C	4.0	0.27	3218.	0.	112.	307.4	177.2	0.0	0.000E+00	0.000E+00	1.206E-06
C	5.0	0.74	3218.	0.	112.	307.4	177.2	0.0	0.000E+00	0.000E+00	9.656E-07
C	5.9	0.71	3218.	0.	112.	307.4	177.2	0.0	0.000E+00	0.000E+00	8.045E-07
C	7.9	1.51	3218.	0.	112.	307.4	177.2	0.0	0.000E+00	0.000E+00	6.031E-07
C	9.9	0.84	3218.	0.	112.	307.4	177.2	0.0	0.000E+00	0.000E+00	4.826E-07
C	24.4	0.47	3218.	0.	112.	307.4	177.2	0.0	0.000E+00	0.000E+00	1.963E-07
D	0.4	0.02	3218.	0.	112.	216.4	68.3	0.0	0.000E+00	0.000E+00	1.363E-05
D	0.7	0.07	3218.	0.	112.	216.4	68.3	0.0	0.000E+00	0.000E+00	7.543E-06
D	1.2	0.07	3218.	0.	112.	216.4	68.3	0.0	0.000E+00	0.000E+00	4.526E-06
D	1.5	0.13	3218.	0.	112.	216.4	68.3	0.0	0.000E+00	0.000E+00	3.772E-06
D	2.0	0.61	3218.	0.	112.	216.4	68.3	0.0	0.000E+00	0.000E+00	2.835E-06
D	3.0	1.89	3218.	0.	112.	216.4	68.3	0.0	0.000E+00	0.000E+00	1.889E-06
D	4.0	3.57	3218.	0.	112.	216.4	68.3	0.0	0.000E+00	0.000E+00	1.416E-06
D	5.0	4.28	3218.	0.	112.	216.4	68.3	0.0	0.000E+00	0.000E+00	1.134E-06
D	5.9	4.85	3218.	0.	112.	216.4	68.3	0.0	0.000E+00	0.000E+00	9.443E-07
D	7.9	9.69	3218.	0.	112.	216.4	68.3	0.0	0.000E+00	0.000E+00	7.080E-07
D	9.9	6.06	3218.	0.	112.	216.4	68.3	0.0	0.000E+00	0.000E+00	5.665E-07
D	24.4	4.24	3218.	0.	112.	216.4	68.3	0.0	0.000E+00	0.000E+00	2.304E-07
E	0.4	0.01	7000.	0.	112.	310.5	66.2	0.0	0.000E+00	0.000E+00	9.048E-06
E	0.5	0.03	7000.	0.	112.	310.5	66.2	0.0	0.000E+00	0.000E+00	7.513E-06
E	1.0	0.10	7000.	0.	112.	310.5	66.2	0.0	0.000E+00	0.000E+00	3.756E-06
E	1.5	0.17	7000.	0.	112.	310.5	66.2	0.0	0.000E+00	0.000E+00	2.504E-06
E	2.0	0.20	7000.	0.	112.	310.5	66.2	0.0	0.000E+00	0.000E+00	1.882E-06
E	3.0	0.77	7000.	0.	112.	310.5	66.2	0.0	0.000E+00	0.000E+00	1.254E-06



E	3.9	1.31	7000.	0.	112.	310.5	66.2	0.0	0.000E+00	0.000E+00	9.402E-07
E	4.9	1.55	7000.	0.	112.	310.5	66.2	0.0	0.000E+00	0.000E+00	7.526E-07
E	5.9	1.92	7000.	0.	112.	310.5	66.2	0.0	0.000E+00	0.000E+00	6.270E-07
E	7.9	7.14	7000.	0.	112.	310.5	66.2	0.0	0.000E+00	0.000E+00	4.701E-07
E	9.8	10.03	7000.	0.	112.	310.5	66.2	0.0	0.000E+00	0.000E+00	3.761E-07
E	24.2	4.11	7000.	0.	112.	310.5	66.2	0.0	0.000E+00	0.000E+00	1.530E-07
F	0.4	0.01	90000.	0.	112.	1000.0	92.1	0.0	0.000E+00	0.000E+00	4.035E-06
F	0.5	0.03	90000.	0.	112.	1000.0	92.1	0.0	0.000E+00	0.000E+00	3.350E-06
F	1.2	0.03	90000.	0.	112.	1000.0	92.1	0.0	0.000E+00	0.000E+00	1.340E-06
F	1.5	0.13	90000.	0.	112.	1000.0	92.1	0.0	0.000E+00	0.000E+00	1.117E-06
F	2.0	0.20	90000.	0.	112.	1000.0	92.1	0.0	0.000E+00	0.000E+00	8.395E-07
F	3.0	0.57	90000.	0.	112.	1000.0	92.1	0.0	0.000E+00	0.000E+00	5.592E-07
F	3.9	0.61	90000.	0.	112.	1000.0	92.1	0.0	0.000E+00	0.000E+00	4.193E-07
F	4.9	0.47	90000.	0.	112.	1000.0	92.1	0.0	0.000E+00	0.000E+00	3.356E-07
F	5.9	1.21	90000.	0.	112.	1000.0	92.1	0.0	0.000E+00	0.000E+00	2.796E-07
F	7.9	4.11	90000.	0.	112.	1000.0	92.1	0.0	0.000E+00	0.000E+00	2.096E-07
F	9.8	8.31	90000.	0.	112.	1000.0	92.1	0.0	0.000E+00	0.000E+00	1.677E-07
F	24.2	4.14	90000.	0.	112.	1000.0	92.1	0.0	0.000E+00	0.000E+00	6.823E-08
G	0.4	0.05	90000.	0.	112.	1000.0	46.0	0.0	0.000E+00	0.000E+00	8.741E-07
G	0.5	0.03	90000.	0.	112.	1000.0	46.0	0.0	0.000E+00	0.000E+00	7.258E-07
G	0.7	0.03	90000.	0.	112.	1000.0	46.0	0.0	0.000E+00	0.000E+00	4.839E-07
G	1.0	0.07	90000.	0.	112.	1000.0	46.0	0.0	0.000E+00	0.000E+00	3.629E-07
G	1.2	0.03	90000.	0.	112.	1000.0	46.0	0.0	0.000E+00	0.000E+00	2.903E-07
G	1.5	0.07	90000.	0.	112.	1000.0	46.0	0.0	0.000E+00	0.000E+00	2.419E-07
G	2.0	0.13	90000.	0.	112.	1000.0	46.0	0.0	0.000E+00	0.000E+00	1.819E-07
G	3.0	0.54	90000.	0.	112.	1000.0	46.0	0.0	0.000E+00	0.000E+00	1.211E-07
G	3.9	0.94	90000.	0.	112.	1000.0	46.0	0.0	0.000E+00	0.000E+00	9.083E-08
G	4.9	1.25	90000.	0.	112.	1000.0	46.0	0.0	0.000E+00	0.000E+00	7.271E-08
G	5.9	1.11	90000.	0.	112.	1000.0	46.0	0.0	0.000E+00	0.000E+00	6.057E-08
G	7.9	2.96	90000.	0.	112.	1000.0	46.0	0.0	0.000E+00	0.000E+00	4.541E-08
G	9.8	2.46	90000.	0.	112.	1000.0	46.0	0.0	0.000E+00	0.000E+00	3.634E-08
G	24.2	0.47	90000.	0.	112.	1000.0	46.0	0.0	0.000E+00	0.000E+00	1.478E-08

USNRC COMPUTER CODE-PAVAN, VERSION 2.0

RUN DATE: 03/14/07

PLANT NAME: Oyster Creek

METEOROLOGICAL INSTRUMENTATION

DATA PERIOD:

WIND SENSORS HEIGHT: 112 meters

TYPE OF RELEASE: Elevated Release

DELTA-T HEIGHTS: 10.1-115.8 meters

SOURCE OF DATA:

COMMENTS: Oyster Creek, Elevated Release, Stack, 1995-1999 met data

PROGRAM: PAVAN, 10/76, 8/79 REVISION, IMPLEMENTATION OF REGULATORY GUIDE 1.145

LOW POPULATION ZONE CALCULATIONS:

SSE SECTOR BOUNDARY DISTANCE = 3218.0 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.

1.363E-05	9.048E-06	7.543E-06	7.513E-06	4.665E-06	4.526E-06	4.035E-06	3.772E-06	3.756E-06	3.350E-06
0.017	0.031	0.099	0.132	0.134	0.202	0.212	0.347	0.448	0.482
0.00113	0.00212	0.00670	0.00898	0.00912	0.01370	0.01443	0.02357	0.03043	0.03272
2.835E-06	2.504E-06	1.889E-06	1.882E-06	1.609E-06	1.416E-06	1.340E-06	1.254E-06	1.206E-06	1.134E-06
1.088	1.256	3.141	3.343	3.444	7.012	7.046	7.820	8.089	12.365
0.07387	0.08530	0.21331	0.22703	0.23388	0.47620	0.47848	0.53106	0.54935	0.83967
1.117E-06	9.656E-07	9.443E-07	9.402E-07	8.741E-07	8.395E-07	8.045E-07	7.526E-07	7.258E-07	7.080E-07
12.499	13.240	18.087	19.400	19.446	19.648	20.355	21.904	21.937	31.632
0.84881	0.89910	1.22828	1.31744	1.32059	1.33431	1.38232	1.48747	1.48976	2.14812
6.466E-07	6.270E-07	6.031E-07	5.665E-07	5.592E-07	4.848E-07	4.839E-07	4.826E-07	4.701E-07	4.193E-07
31.666	33.585	35.099	41.159	41.731	41.764	41.798	42.640	49.776	50.382
2.15040	2.28070	2.38357	2.79505	2.83391	2.83620	2.83848	2.89563	3.38026	3.42141
3.881E-07	3.761E-07	3.629E-07	3.356E-07	3.233E-07	2.966E-07	2.903E-07	2.796E-07	2.424E-07	2.419E-07
50.550	60.582	60.649	61.120	61.423	61.457	61.490	62.702	63.443	63.510
3.43284	4.11406	4.11863	4.15063	4.17121	4.17349	4.17578	4.25807	4.30836	4.31294
2.304E-07	2.096E-07	1.963E-07	1.939E-07	1.819E-07	1.677E-07	1.530E-07	1.481E-07	1.211E-07	1.186E-07
67.752	71.858	72.330	72.868	73.003	81.317	85.424	85.458	85.997	86.030
4.60097	4.87986	4.91186	4.94844	4.95758	5.52222	5.80111	5.80339	5.83997	5.84225
9.083E-08	7.888E-08	7.406E-08	7.271E-08	6.823E-08	6.057E-08	5.926E-08	4.541E-08	3.634E-08	2.410E-08
86.973	87.208	87.343	88.589	92.729	93.840	94.042	97.004	99.461	99.529
5.90626	5.92226	5.93141	6.01599	6.29716	6.37260	6.38632	6.58748	6.75436	6.75893
1.478E-08									
100.000									
6.79093									

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 = 3.340E-05      DISTANCE = 800.000

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)= 0.009  
 HANDCHECK GRAPH: SLOPE LT -1.0 FOR LOW PERCENTAGES. XSAVE ( 3)= 0.213  
 HANDCHECK GRAPH: SLOPE LT -1.0 FOR LOW PERCENTAGES. XSAVE ( 5)= 0.839  
 HANDCHECK GRAPH: SLOPE LT -1.0 FOR LOW PERCENTAGES. XSAVE ( 6)= 1.316  
 HANDCHECK GRAPH: SLOPE LT -1.0 FOR LOW PERCENTAGES. XSAVE ( 7)= 2.146  
 HANDCHECK GRAPH: SLOPE LT -1.0 FOR LOW PERCENTAGES. XSAVE ( 8)= 2.792  
 HANDCHECK GRAPH: SLOPE LT -1.0 FOR LOW PERCENTAGES. XSAVE ( 9)= 2.831  
 HANDCHECK GRAPH: SLOPE LT -1.0 FOR LOW PERCENTAGES. XSAVE (10)= 3.377  
 HANDCHECK GRAPH: SLOPE LT -1.0 FOR LOW PERCENTAGES. XSAVE (11)= 4.111

K	I	XQSAVE(K,I)	XQINT(K,I)	XQSLOP(K,I)
16	1	-11.20349	-16.33378	-1.21054
16	2	-11.79889	-17.62360	-1.55484
16	3	-13.17966	-13.65267	-0.16550
16	4	-13.18295	-16.40621	-1.13563
16	5	-13.69019	-16.31883	-1.09910
16	6	-13.87721	-17.07646	-1.44015
16	7	-14.16087	-18.18025	-1.98536
16	8	-14.38379	-18.47490	-2.13944
16	9	-14.39667	-18.63208	-2.22190
16	10	-14.57036	-19.09566	-2.47550
16	11	-14.79328	NUMXQ(K)= 11	
		3.232E-06	0.068	1.000
		1.932E-06	0.204	3.000
		1.622E-06	0.340	5.000
		1.237E-06	0.679	10.000
		1.048E-06	1.019	15.000
		9.242E-07	1.358	20.000
		8.136E-07	1.698	25.000
		7.308E-07	2.037	30.000
		6.506E-07	2.377	35.000
		5.806E-07	2.716	40.000
		5.195E-07	3.056	45.000
		4.677E-07	3.395	50.000
		4.202E-07	3.735	55.000
		3.804E-07	4.075	60.000
		1.398E-06	0.5	7.36

ANNUAL AVERAGE = 1.46E-08

K= 16 FIVEXQ(K)= 1.398E-06 FIVEPR(K)= 7.363

FUMIGATION X/Q AT THE BOUNDARY: 1.68E-05

EXPONENTIAL TERM AND FREQUENCIES

9.937E-01	9.601E-01	8.190E-01	4.773E-01	2.610E-01	2.388E-01	5.166E-02
0.505	2.560	7.206	27.044	62.506	89.855	100.000

USNRC COMPUTER CODE-PAVAN, VERSION 2.0

RUN DATE: 03/14/07

PLANT NAME: Oyster Creek

METEOROLOGICAL INSTRUMENTATION

DATA PERIOD:

WIND SENSORS HEIGHT: 112 meters

TYPE OF RELEASE: Elevated Release

DELTA-T HEIGHTS: 10.1-115.8 meters

SOURCE OF DATA:

COMMENTS: Oyster Creek, Elevated Release, Stack, 1995-1999 met data

PROGRAM: PAVAN, 10/76, 8/79 REVISION, IMPLEMENTATION OF REGULATORY GUIDE 1.145

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

CLASS	METER/SEC	PERCENT	METERS	METERS	METERS	SIGMA-Y METERS	SIGMA-Z METERS	MEANDER-SY METERS	** CHI/Q VALUES (SEC/CUBIC METER)			
									MEANDER	BLDG WAKE	USED	
AT 112.0 METERS												
A	1.2	0.00	3218.	0.	112.	538.2	1000.0	0.0	0.000E+00	0.000E+00	4.735E-07	
A	2.0	0.01	3218.	0.	112.	538.2	1000.0	0.0	0.000E+00	0.000E+00	2.966E-07	
A	3.0	0.03	3218.	0.	112.	538.2	1000.0	0.0	0.000E+00	0.000E+00	1.976E-07	
A	4.0	0.05	3218.	0.	112.	538.2	1000.0	0.0	0.000E+00	0.000E+00	1.481E-07	
A	5.0	0.11	3218.	0.	112.	538.2	1000.0	0.0	0.000E+00	0.000E+00	1.186E-07	
A	5.9	0.18	3218.	0.	112.	538.2	1000.0	0.0	0.000E+00	0.000E+00	9.879E-08	
A	7.9	0.48	3218.	0.	112.	538.2	1000.0	0.0	0.000E+00	0.000E+00	7.406E-08	
A	9.9	0.41	3218.	0.	112.	538.2	1000.0	0.0	0.000E+00	0.000E+00	5.926E-08	
A	24.4	0.33	3218.	0.	112.	538.2	1000.0	0.0	0.000E+00	0.000E+00	2.410E-08	
CA= 957.SQ.METERS												
B	0.4	0.00	3218.	0.	112.	404.8	392.6	0.0	0.000E+00	0.000E+00	4.665E-06	
B	2.0	0.01	3218.	0.	112.	404.8	392.6	0.0	0.000E+00	0.000E+00	9.706E-07	
B	3.0	0.03	3218.	0.	112.	404.8	392.6	0.0	0.000E+00	0.000E+00	6.466E-07	
B	4.0	0.12	3218.	0.	112.	404.8	392.6	0.0	0.000E+00	0.000E+00	4.848E-07	
B	5.0	0.40	3218.	0.	112.	404.8	392.6	0.0	0.000E+00	0.000E+00	3.881E-07	
B	5.9	0.61	3218.	0.	112.	404.8	392.6	0.0	0.000E+00	0.000E+00	3.233E-07	
B	7.9	1.12	3218.	0.	112.	404.8	392.6	0.0	0.000E+00	0.000E+00	2.424E-07	
B	9.9	0.68	3218.	0.	112.	404.8	392.6	0.0	0.000E+00	0.000E+00	1.939E-07	
B	24.4	0.52	3218.	0.	112.	404.8	392.6	0.0	0.000E+00	0.000E+00	7.888E-08	
C	0.5	0.00	3218.	0.	112.	307.4	177.2	0.0	0.000E+00	0.000E+00	9.639E-06	
C	0.7	0.00	3218.	0.	112.	307.4	177.2	0.0	0.000E+00	0.000E+00	6.426E-06	
C	2.0	0.04	3218.	0.	112.	307.4	177.2	0.0	0.000E+00	0.000E+00	2.415E-06	
C	3.0	0.12	3218.	0.	112.	307.4	177.2	0.0	0.000E+00	0.000E+00	1.609E-06	
C	4.0	0.51	3218.	0.	112.	307.4	177.2	0.0	0.000E+00	0.000E+00	1.206E-06	
C	5.0	0.97	3218.	0.	112.	307.4	177.2	0.0	0.000E+00	0.000E+00	9.656E-07	
C	5.9	1.17	3218.	0.	112.	307.4	177.2	0.0	0.000E+00	0.000E+00	8.045E-07	
C	7.9	1.74	3218.	0.	112.	307.4	177.2	0.0	0.000E+00	0.000E+00	6.031E-07	
C	9.9	0.95	3218.	0.	112.	307.4	177.2	0.0	0.000E+00	0.000E+00	4.826E-07	
C	24.4	0.81	3218.	0.	112.	307.4	177.2	0.0	0.000E+00	0.000E+00	1.963E-07	
D	0.4	0.04	3218.	0.	112.	216.4	68.3	0.0	0.000E+00	0.000E+00	1.363E-05	
D	0.5	0.00	3218.	0.	112.	216.4	68.3	0.0	0.000E+00	0.000E+00	1.131E-05	
D	0.7	0.05	3218.	0.	112.	216.4	68.3	0.0	0.000E+00	0.000E+00	7.543E-06	
D	1.0	0.12	3218.	0.	112.	216.4	68.3	0.0	0.000E+00	0.000E+00	5.657E-06	
D	1.2	0.16	3218.	0.	112.	216.4	68.3	0.0	0.000E+00	0.000E+00	4.526E-06	
D	1.5	0.25	3218.	0.	112.	216.4	68.3	0.0	0.000E+00	0.000E+00	3.772E-06	
D	2.0	0.63	3218.	0.	112.	216.4	68.3	0.0	0.000E+00	0.000E+00	2.835E-06	
D	3.0	2.54	3218.	0.	112.	216.4	68.3	0.0	0.000E+00	0.000E+00	1.889E-06	
D	4.0	4.47	3218.	0.	112.	216.4	68.3	0.0	0.000E+00	0.000E+00	1.416E-06	
D	5.0	5.44	3218.	0.	112.	216.4	68.3	0.0	0.000E+00	0.000E+00	1.134E-06	
D	5.9	5.63	3218.	0.	112.	216.4	68.3	0.0	0.000E+00	0.000E+00	9.443E-07	
D	7.9	9.04	3218.	0.	112.	216.4	68.3	0.0	0.000E+00	0.000E+00	7.080E-07	

D	9.9	6.18	3218.	0.	112.	216.4	68.3	0.0	0.000E+00	0.000E+00	5.665E-07
D	24.4	6.07	3218.	0.	112.	216.4	68.3	0.0	0.000E+00	0.000E+00	2.304E-07
E	0.4	0.03	7000.	0.	112.	310.5	66.2	0.0	0.000E+00	0.000E+00	9.048E-06
E	0.5	0.01	7000.	0.	112.	310.5	66.2	0.0	0.000E+00	0.000E+00	7.513E-06
E	0.7	0.04	7000.	0.	112.	310.5	66.2	0.0	0.000E+00	0.000E+00	5.009E-06
E	1.0	0.10	7000.	0.	112.	310.5	66.2	0.0	0.000E+00	0.000E+00	3.756E-06
E	1.2	0.08	7000.	0.	112.	310.5	66.2	0.0	0.000E+00	0.000E+00	3.005E-06
E	1.5	0.14	7000.	0.	112.	310.5	66.2	0.0	0.000E+00	0.000E+00	2.504E-06
E	2.0	0.32	7000.	0.	112.	310.5	66.2	0.0	0.000E+00	0.000E+00	1.882E-06
E	3.0	0.96	7000.	0.	112.	310.5	66.2	0.0	0.000E+00	0.000E+00	1.254E-06
E	3.9	1.48	7000.	0.	112.	310.5	66.2	0.0	0.000E+00	0.000E+00	9.402E-07
E	4.9	2.02	7000.	0.	112.	310.5	66.2	0.0	0.000E+00	0.000E+00	7.526E-07
E	5.9	2.70	7000.	0.	112.	310.5	66.2	0.0	0.000E+00	0.000E+00	6.270E-07
E	7.9	6.61	7000.	0.	112.	310.5	66.2	0.0	0.000E+00	0.000E+00	4.701E-07
E	9.8	7.07	7000.	0.	112.	310.5	66.2	0.0	0.000E+00	0.000E+00	3.761E-07
E	24.2	4.90	7000.	0.	112.	310.5	66.2	0.0	0.000E+00	0.000E+00	1.530E-07
F	0.4	0.02	90000.	0.	112.	1000.0	92.1	0.0	0.000E+00	0.000E+00	4.035E-06
F	0.5	0.01	90000.	0.	112.	1000.0	92.1	0.0	0.000E+00	0.000E+00	3.350E-06
F	0.7	0.03	90000.	0.	112.	1000.0	92.1	0.0	0.000E+00	0.000E+00	2.234E-06
F	1.0	0.04	90000.	0.	112.	1000.0	92.1	0.0	0.000E+00	0.000E+00	1.675E-06
F	1.2	0.05	90000.	0.	112.	1000.0	92.1	0.0	0.000E+00	0.000E+00	1.340E-06
F	1.5	0.07	90000.	0.	112.	1000.0	92.1	0.0	0.000E+00	0.000E+00	1.117E-06
F	2.0	0.13	90000.	0.	112.	1000.0	92.1	0.0	0.000E+00	0.000E+00	8.395E-07
F	3.0	0.55	90000.	0.	112.	1000.0	92.1	0.0	0.000E+00	0.000E+00	5.592E-07
F	3.9	0.76	90000.	0.	112.	1000.0	92.1	0.0	0.000E+00	0.000E+00	4.193E-07
F	4.9	0.98	90000.	0.	112.	1000.0	92.1	0.0	0.000E+00	0.000E+00	3.356E-07
F	5.9	1.19	90000.	0.	112.	1000.0	92.1	0.0	0.000E+00	0.000E+00	2.796E-07
F	7.9	2.80	90000.	0.	112.	1000.0	92.1	0.0	0.000E+00	0.000E+00	2.096E-07
F	9.8	3.28	90000.	0.	112.	1000.0	92.1	0.0	0.000E+00	0.000E+00	1.677E-07
F	24.2	2.46	90000.	0.	112.	1000.0	92.1	0.0	0.000E+00	0.000E+00	6.823E-08
G	0.4	0.05	90000.	0.	112.	1000.0	46.0	0.0	0.000E+00	0.000E+00	8.741E-07
G	0.5	0.01	90000.	0.	112.	1000.0	46.0	0.0	0.000E+00	0.000E+00	7.258E-07
G	0.7	0.02	90000.	0.	112.	1000.0	46.0	0.0	0.000E+00	0.000E+00	4.839E-07
G	1.0	0.07	90000.	0.	112.	1000.0	46.0	0.0	0.000E+00	0.000E+00	3.629E-07
G	1.2	0.08	90000.	0.	112.	1000.0	46.0	0.0	0.000E+00	0.000E+00	2.903E-07
G	1.5	0.10	90000.	0.	112.	1000.0	46.0	0.0	0.000E+00	0.000E+00	2.419E-07
G	2.0	0.24	90000.	0.	112.	1000.0	46.0	0.0	0.000E+00	0.000E+00	1.819E-07
G	3.0	0.80	90000.	0.	112.	1000.0	46.0	0.0	0.000E+00	0.000E+00	1.211E-07
G	3.9	0.99	90000.	0.	112.	1000.0	46.0	0.0	0.000E+00	0.000E+00	9.083E-08
G	4.9	1.18	90000.	0.	112.	1000.0	46.0	0.0	0.000E+00	0.000E+00	7.271E-08
G	5.9	1.23	90000.	0.	112.	1000.0	46.0	0.0	0.000E+00	0.000E+00	6.057E-08
G	7.9	2.10	90000.	0.	112.	1000.0	46.0	0.0	0.000E+00	0.000E+00	4.541E-08
G	9.8	1.46	90000.	0.	112.	1000.0	46.0	0.0	0.000E+00	0.000E+00	3.634E-08
G	24.2	0.79	90000.	0.	112.	1000.0	46.0	0.0	0.000E+00	0.000E+00	1.478E-08

USNRC COMPUTER CODE-PAVAN, VERSION 2.0

RUN DATE: 03/14/07

PLANT NAME: Oyster Creek

METEOROLOGICAL INSTRUMENTATION

DATA PERIOD:

WIND SENSORS HEIGHT: 112 meters

TYPE OF RELEASE: Elevated Release

DELTA-T HEIGHTS: 10.1-115.8 meters

SOURCE OF DATA:

COMMENTS: Oyster Creek, Elevated Release, Stack, 1995-1999 met data

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 = 3218.0 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.

1.363E-05	1.131E-05	9.639E-06	9.048E-06	7.543E-06	7.513E-06	6.426E-06	5.657E-06	5.009E-06	4.665E-06
0.041	0.046	0.048	0.073	0.126	0.135	0.137	0.256	0.295	0.297
0.04115	0.04572	0.04801	0.07315	0.12573	0.13487	0.13716	0.25603	0.29489	0.29718
4.526E-06	4.035E-06	3.772E-06	3.756E-06	3.350E-06	3.005E-06	2.835E-06	2.504E-06	2.415E-06	2.234E-06
0.455	0.475	0.729	0.832	0.841	0.921	1.550	1.687	1.724	1.751
0.45491	0.47548	0.72923	0.83210	0.84124	0.92125	1.54989	1.68705	1.72363	1.75106
1.889E-06	1.882E-06	1.675E-06	1.609E-06	1.416E-06	1.340E-06	1.254E-06	1.206E-06	1.134E-06	1.117E-06
4.291	4.613	4.650	4.769	9.240	9.295	10.257	10.767	16.210	16.281
4.29078	4.61310	4.64967	4.76855	9.23991	9.29478	10.25717	10.76694	16.20985	16.28072
9.706E-07	9.656E-07	9.443E-07	9.402E-07	8.741E-07	8.395E-07	8.045E-07	7.526E-07	7.258E-07	7.080E-07
16.288	17.259	22.892	24.375	24.423	24.554	25.726	27.749	27.759	36.797
16.28758	17.25912	22.89176	24.37536	24.42336	24.55367	25.72637	27.74946	27.75860	36.79735
6.466E-07	6.270E-07	6.031E-07	5.665E-07	5.592E-07	4.848E-07	4.839E-07	4.826E-07	4.735E-07	4.701E-07
36.832	39.527	41.262	47.441	47.989	48.108	48.127	49.080	49.082	55.693
36.83164	39.52681	41.26186	47.44086	47.98949	48.10836	48.12665	49.07990	49.08219	55.69323
4.193E-07	3.881E-07	3.761E-07	3.629E-07	3.356E-07	3.233E-07	2.966E-07	2.903E-07	2.796E-07	2.424E-07
56.454	56.854	63.927	63.998	64.981	65.591	65.598	65.674	66.867	67.989
56.45446	56.85450	63.92731	63.99818	64.98115	65.59150	65.59836	65.67380	66.86708	67.98949
2.419E-07	2.304E-07	2.096E-07	1.976E-07	1.963E-07	1.939E-07	1.819E-07	1.677E-07	1.530E-07	1.481E-07
68.088	74.157	76.960	76.992	77.805	78.487	78.731	82.009	86.910	86.963
68.08779	74.15705	76.95966	76.99167	77.80547	78.48669	78.73129	82.00938	86.91051	86.96309
1.211E-07	1.186E-07	9.879E-08	9.083E-08	7.888E-08	7.406E-08	7.271E-08	6.823E-08	6.057E-08	5.926E-08
87.761	87.873	88.049	89.036	89.555	90.040	91.217	93.679	94.911	95.318
87.76090	87.87292	88.04893	89.03648	89.55539	90.04002	91.21729	93.67929	94.91143	95.31834
4.541E-08	3.634E-08	2.410E-08	1.478E-08						
97.421	98.880	99.209	100.000						
97.42144	98.87989	99.20907	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 = 3.340E-05      DISTANCE = 800.000

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( 84)= 100.00000  
 HANDCHECK GRAPH: SLOPE LT -1.0 FOR LOW PERCENTAGES. XSAVE( 2)= 0.256  
 HANDCHECK GRAPH: SLOPE LT -1.0 FOR LOW PERCENTAGES. XSAVE( 3)= 0.831

3.516E-06	1.000	1.000
2.280E-06	3.000	3.000
1.830E-06	5.000	5.000
1.405E-06	10.000	10.000
1.176E-06	15.000	15.000
1.033E-06	20.000	20.000
9.255E-07	25.000	25.000
8.214E-07	30.000	30.000
7.355E-07	35.000	35.000
6.611E-07	40.000	40.000
5.956E-07	45.000	45.000
5.347E-07	50.000	50.000
4.776E-07	55.000	55.000
1.830E-06	5.0	5.00

K= 17      FIVEXQ(K)= 1.830E-06      FIVEPR(K)= 5.000

FUMIGATION X/Q AT THE BOUNDARY: 1.68E-05

EXPONENTIAL TERM AND FREQUENCIES

9.937E-01	9.601E-01	8.190E-01	4.773E-01	2.610E-01	2.388E-01	5.166E-02
1.602	5.098	11.414	23.792	64.423	90.888	100.000



USNRC COMPUTER CODE-PAVAN, VERSION 2.0

RUN DATE: 03/14/07

PLANT NAME: Oyster Creek	METEOROLOGICAL INSTRUMENTATION
DATA PERIOD:	WIND SENSORS HEIGHT: 112 meters
TYPE OF RELEASE: Elevated Release	DELTA-T HEIGHTS: 10.1-115.8 meters
SOURCE OF DATA:	
COMMENTS: Oyster Creek, Elevated Release, Stack, 1995-1999 met data	
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.

1.363E-05	1.131E-05	9.639E-06	9.048E-06	7.543E-06	7.513E-06	6.426E-06	5.657E-06	5.009E-06	4.665E-06
0.041	0.046	0.048	0.073	0.126	0.135	0.137	0.256	0.295	0.297
0.04115	0.04572	0.04801	0.07315	0.12573	0.13487	0.13716	0.25603	0.29489	0.29718
4.526E-06	4.035E-06	3.772E-06	3.756E-06	3.350E-06	3.005E-06	2.835E-06	2.504E-06	2.415E-06	2.234E-06
0.455	0.475	0.729	0.832	0.841	0.921	1.550	1.687	1.724	1.751
0.45491	0.47548	0.72923	0.83210	0.84124	0.92125	1.54989	1.68705	1.72363	1.75106
1.889E-06	1.882E-06	1.675E-06	1.609E-06	1.416E-06	1.340E-06	1.254E-06	1.206E-06	1.134E-06	1.117E-06
4.291	4.613	4.650	4.769	9.240	9.295	10.257	10.767	16.210	16.281
4.29078	4.61310	4.64967	4.76854	9.23991	9.29477	10.25717	10.76694	16.20985	16.28072
9.706E-07	9.656E-07	9.443E-07	9.402E-07	8.741E-07	8.395E-07	8.045E-07	7.526E-07	7.258E-07	7.080E-07
16.288	17.259	22.892	24.375	24.423	24.554	25.726	27.749	27.759	36.797
16.28758	17.25912	22.89176	24.37535	24.42337	24.55367	25.72638	27.74947	27.75862	36.79736
6.466E-07	6.270E-07	6.031E-07	5.665E-07	5.592E-07	4.848E-07	4.839E-07	4.826E-07	4.735E-07	4.701E-07
36.832	39.527	41.262	47.441	47.989	48.108	48.127	49.080	49.082	55.693
36.83165	39.52682	41.26187	47.44086	47.98950	48.10838	48.12666	49.07990	49.08219	55.69323
4.193E-07	3.881E-07	3.761E-07	3.629E-07	3.356E-07	3.233E-07	2.966E-07	2.903E-07	2.796E-07	2.424E-07
56.454	56.854	63.927	63.998	64.981	65.591	65.598	65.674	66.867	67.989
56.45446	56.85452	63.92733	63.99820	64.98117	65.59151	65.59838	65.67382	66.86711	67.98953
2.419E-07	2.304E-07	2.096E-07	1.976E-07	1.963E-07	1.939E-07	1.819E-07	1.677E-07	1.530E-07	1.481E-07
68.088	74.157	76.960	76.992	77.805	78.487	78.731	82.009	86.910	86.963
68.08783	74.15709	76.95969	76.99171	77.80552	78.48675	78.73137	82.00947	86.91061	86.96321
1.211E-07	1.186E-07	9.879E-08	9.083E-08	7.888E-08	7.406E-08	7.271E-08	6.823E-08	6.057E-08	5.926E-08
87.761	87.873	88.049	89.036	89.555	90.040	91.217	93.679	94.911	95.318
87.76103	87.87305	88.04907	89.03662	89.55554	90.04018	91.21745	93.67946	94.91160	95.31852
4.541E-08	3.634E-08	2.410E-08	1.478E-08						
97.421	98.880	99.209	100.000						
97.42162	98.88007	99.20926	100.00020						

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 = 3.340E-05      DISTANCE = 800.000

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( 84)= 100.00020  
 HANDCHECK GRAPH: SLOPE LT -1.0 FOR LOW PERCENTAGES. XSAVE( 2)= 0.256  
 HANDCHECK GRAPH: SLOPE LT -1.0 FOR LOW PERCENTAGES. XSAVE( 3)= 0.831

K	I	XQSAVE(K, I)	XQINT(K, I)	XQSLOP(K, I)
18	1	-11.20349	-16.59443	-1.61156
18	2	-12.08254	-14.91502	-1.01170
18	3	-12.49203	-14.81932	-0.97175
18	4	-13.18295	-14.40647	-0.72658
18	5	-13.69019	-14.32195	-0.64084
18	6	-13.87721	-14.42830	-0.79408
18	7	-14.16087	-14.43611	-0.81729
18	8	-14.38379	-14.44152	-0.90167
18	9	-14.57036	NUMXQ(K)= 9	
		3.516E-06	1.000	1.000
		2.280E-06	3.000	3.000
		1.830E-06	5.000	5.000
		1.405E-06	10.000	10.000
		1.176E-06	15.000	15.000
		1.033E-06	20.000	20.000
		9.255E-07	25.000	25.000
		8.214E-07	30.000	30.000
		7.355E-07	35.000	35.000
		6.611E-07	40.000	40.000
		5.956E-07	45.000	45.000
		5.347E-07	50.000	50.000
		4.776E-07	55.000	55.000
		1.830E-06	5.0	5.00

K= 18      FIVEXQ(K)= 1.830E-06      FIVEPR(K)= 5.000

K	HIGHPR	PR	GRNDVT(K)
1	-2.69809	0.34870	4.29369
2	-1.60418	5.43368	3.37391
3	-2.66172	0.38871	6.16855
4	-2.67225	0.37673	5.18429
5	-2.64764	0.40529	3.71588
6	-2.57624	0.49942	3.33050
7	-2.58490	0.48704	3.81943
8	-2.68740	0.36005	4.27679
9	-2.75531	0.29319	6.52016

10	-2.77350	0.27729	8.46418
11	-2.76414	0.28537	6.89637
12	-2.83071	0.23223	7.00124
13	-2.77128	0.27918	8.11998
14	-2.79096	0.26276	11.30449
15	-2.69776	0.34904	10.73959
16	-2.78726	0.26578	6.79093

K	HOURS (K)	TOTHR
1	30.54604	30.54604
2	475.99020	506.53630
3	34.05114	540.58740
4	33.00165	573.58910
5	35.50320	609.09230
6	43.74879	652.84110
7	42.66483	695.50590
8	31.54071	727.04660
9	25.68338	752.73000
10	24.29032	777.02040
11	24.99834	802.01870
12	20.34297	822.36170
13	24.45636	846.81810
14	23.01787	869.83590
15	30.57632	900.41220
16	23.28260	923.69480

K	FIVEXQ	SVANN	SLTIME	TIMINT	I	TIME	XQT
1	1.500E-06	1.172E-08	-0.5786	-13.0091			
					1	8.0	-14.21231
					2	16.0	-14.61337
					3	72.0	-15.48364
					4	624.0	-16.73314
2	1.577E-06	1.237E-08	-0.5781	-12.9595			
					1	8.0	-14.16164
					2	16.0	-14.56236
					3	72.0	-15.43187
					4	624.0	-16.68029
3	1.571E-06	1.935E-08	-0.5244	-13.0003			
					1	8.0	-14.09073
					2	16.0	-14.45419
					3	72.0	-15.24288
					4	624.0	-16.37524
4	1.560E-06	1.852E-08	-0.5287	-13.0043			
					1	8.0	-14.10373
					2	16.0	-14.47022
					3	72.0	-15.26546
					4	624.0	-16.40723
5	1.638E-06	1.550E-08	-0.5558	-12.9366			
					1	8.0	-14.09238
					2	16.0	-14.47764
					3	72.0	-15.31362
					4	624.0	-16.51388
6	1.776E-06	1.519E-08	-0.5679	-12.8473			
					1	8.0	-14.02817
					2	16.0	-14.42181
					3	72.0	-15.27596
					4	624.0	-16.50232

7	1.760E-06	1.738E-08	-0.5507	-12.8684				
					1	8.0	-14.01363	
					2	16.0	-14.39538	
					3	72.0	-15.22373	
					4	624.0	-16.41303	
8	1.556E-06	1.539E-08	-0.5505	-12.9919				
					1	8.0	-14.13674	
					2	16.0	-14.51834	
					3	72.0	-15.34640	
					4	624.0	-16.53528	
9	1.486E-06	1.805E-08	-0.5261	-13.0547				
					1	8.0	-14.14858	
					2	16.0	-14.51321	
					3	72.0	-15.30444	
					4	624.0	-16.44045	
10	1.396E-06	1.842E-08	-0.5162	-13.1238				
					1	8.0	-14.19723	
					2	16.0	-14.55502	
					3	72.0	-15.33141	
					4	624.0	-16.44612	
11	1.382E-06	1.216E-08	-0.5645	-13.1009				
					1	8.0	-14.27473	
					2	16.0	-14.66600	
					3	72.0	-15.51505	
					4	624.0	-16.73406	
12	1.310E-06	1.344E-08	-0.5462	-13.1668				
					1	8.0	-14.30259	
					2	16.0	-14.68119	
					3	72.0	-15.50271	
					4	624.0	-16.68221	
13	1.418E-06	1.694E-08	-0.5280	-13.1006				
					1	8.0	-14.19847	
					2	16.0	-14.56444	
					3	72.0	-15.35857	
					4	624.0	-16.49874	
14	1.409E-06	2.120E-08	-0.5005	-13.1253				
					1	8.0	-14.16616	
					2	16.0	-14.51310	
					3	72.0	-15.26592	
					4	624.0	-16.34680	
15	1.518E-06	2.311E-08	-0.4991	-13.0518				
					1	8.0	-14.08970	
					2	16.0	-14.43566	
					3	72.0	-15.18637	
					4	624.0	-16.26419	
16	1.398E-06	1.464E-08	-0.5437	-13.1037				
					1	8.0	-14.23428	
					2	16.0	-14.61114	
					3	72.0	-15.42891	
					4	624.0	-16.60302	
17	1.830E-06	2.311E-08	-0.5214	-12.8497				
					1	8.0	-13.93388	
					2	16.0	-14.29527	
					3	72.0	-15.07946	
					4	624.0	-16.20537	
18	1.830E-06	2.311E-08	-0.5214	-12.8497				
					1	8.0	-13.93388	

2	16.0	-14.29527
3	72.0	-15.07946
4	624.0	-16.20537

USNRC COMPUTER CODE-PAVAN, VERSION 2.0

RUN DATE: 03/14/07

PLANT NAME: Oyster Creek

METEOROLOGICAL INSTRUMENTATION

DATA PERIOD:

WIND SENSORS HEIGHT: 112 meters

TYPE OF RELEASE: Elevated Release

DELTA-T HEIGHTS: 10.1-115.8 meters

SOURCE OF DATA:

COMMENTS: Oyster Creek, Elevated Release, Stack, 1995-1999 met data

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 DISTANCE SECTOR (METERS)	RELATIVE CONCENTRATION (X/Q) VALUES (SEC/CUBIC METER)					HOURS PER YEAR MAX 0-2 HR X/Q IS EXCEEDED IN SECTOR		DOWNWIND SECTOR
	0-2 HOURS	0-8 HOURS	8-24 HOURS	1-4 DAYS	4-30 DAYS	ANNUAL AVERAGE		
S 3218.	1.50E-06	6.72E-07	4.50E-07	1.89E-07	5.41E-08	1.17E-08	30.5	S
SSW 3218.	1.58E-06	7.07E-07	4.74E-07	1.99E-07	5.70E-08	1.24E-08	476.0	SSW
SW 3218.	1.57E-06	7.59E-07	5.28E-07	2.40E-07	7.73E-08	1.93E-08	34.1	SW
WSW 3218.	1.56E-06	7.50E-07	5.20E-07	2.35E-07	7.49E-08	1.85E-08	33.0	WSW
W 3218.	1.64E-06	7.58E-07	5.16E-07	2.24E-07	6.73E-08	1.55E-08	35.5	W
WNW 3218.	1.78E-06	8.08E-07	5.45E-07	2.32E-07	6.81E-08	1.52E-08	43.7	WNW
NW 3218.	1.76E-06	8.20E-07	5.60E-07	2.45E-07	7.45E-08	1.74E-08	42.7	NW
NNW 3218.	1.56E-06	7.25E-07	4.95E-07	2.16E-07	6.59E-08	1.54E-08	31.5	NNW
N 3218.	1.49E-06	7.17E-07	4.98E-07	2.26E-07	7.24E-08	1.80E-08	25.7	N
NNE 3218.	1.40E-06	6.83E-07	4.77E-07	2.20E-07	7.20E-08	1.84E-08	24.3	NNE
NE 3218.	1.38E-06	6.32E-07	4.27E-07	1.83E-07	5.40E-08	1.22E-08	25.0	NE
ENE 3218.	1.31E-06	6.14E-07	4.21E-07	1.85E-07	5.69E-08	1.34E-08	20.3	ENE
E 3218.	1.42E-06	6.82E-07	4.73E-07	2.14E-07	6.83E-08	1.69E-08	24.5	E
ESE 3218.	1.41E-06	7.04E-07	4.98E-07	2.34E-07	7.96E-08	2.12E-08	23.0	ESE
SE 3218.	1.52E-06	7.60E-07	5.38E-07	2.54E-07	8.64E-08	2.31E-08	30.6	SE
SSE 3218.	1.40E-06	6.58E-07	4.51E-07	1.99E-07	6.16E-08	1.46E-08	23.3	SSE
MAX X/Q	1.78E-06					TOTAL HOURS AROUND SITE:	923.7	
SRP 2.3.4	1.83E-06	8.88E-07	6.19E-07	2.83E-07	9.16E-08	2.31E-08		
SITE LIMIT	1.83E-06	8.88E-07	6.19E-07	2.83E-07	9.16E-08	2.31E-08		

THE FIVE-PERCENT-FOR-THE-ENTIRE-SITE X/Q IS LIMITING.

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

DOWNWIND DISTANCE FUMIGATION SECTOR (METERS)	X/Q
S 3218.	1.68E-05
SSW 3218.	1.68E-05
SW 3218.	1.68E-05
WSW 3218.	1.68E-05
W 3218.	1.68E-05
WNW 3218.	1.68E-05
NW 3218.	1.68E-05
NNW 3218.	1.68E-05
N 3218.	1.68E-05
NNE 3218.	1.68E-05
NE 3218.	1.68E-05
ENE 3218.	1.68E-05
E 3218.	1.68E-05
ESE 3218.	1.68E-05
SE 3218.	1.68E-05
SSE 3218.	1.68E-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.

**Computer Disclosure Sheet**Discipline Nuclear

Client:: Exelon Corporation  
 Project: Oyster Creek Generating Station

Date: March 2007  
 Job No. 28063-OYS0068.DIRH

Program(s) used  
 PAVAN

Version No.  
 2

Rev. Date  
 12/1997

Calculation No.: C-1302-826-E310-018, Rev. 0

Status  Prelim.  
 Final  
 Void

WGI Prequalification  Yes  
 No

Run No. 1

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. 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 *T. Thomas / JGR* 03-15-07

Checked by: J. Robinson *J. Robinson* 03-15-07

Approved by: H. Rothstein *H. Rothstein* 3/15/07

Remarks: WGI Form for Computer Software Control



# Memorandum



Date: March 2, 2007

To: Harold Rothstein

cc: David Distel  
Jessica DeLaRosa

From: Thomas Mscisz

Subject: Oyster Creek Meteorological Data for Use in Development of New Offsite (EAB and LPZ)  
Atmospheric Dispersion Coefficients (X/Qs) using PAVAN

Harold,

Attached are the Oyster Creek meteorological data files that are to be used to generate new offsite X/Qs (upon approval to start). These are the same files that were used to develop the Control Room X/Qs and have had appropriate quality reviews by the site at the time of generation. The following is a description of the data fields within the files.

- **Year:** Self-explanatory.
- **Month:** This column is incorrectly named. It is to be interpreted as the "Day" of the year.
- **Hour:** Hour of the day displayed.
- **WS33:** Wind speed at the 33' tower elevation. (Units are miles per hour)
- **WS150:** Wind speed at the 150' tower elevation. (Units are miles per hour)
- **WS380:** Wind speed at the 380' tower elevation. (Units are miles per hour)
- **WD33:** Wind direction (degrees from) at the 33' tower elevation.
- **WD150:** Wind direction (degrees from) at the 150' tower elevation.
- **WD380:** Wind direction (degrees from) at the 380' tower elevation.
- **Dt150:** Differential Temperature (degrees Fahrenheit) between the 150' and 33' elevations.
- **Dt380:** Differential Temperature (degrees Fahrenheit) between the 380' and 33' elevations.
- **Ter33:** Temperature (degrees Fahrenheit) at the 33' elevation.
- **Ter150:** Temperature (degrees Fahrenheit) at the 150' elevation.
- **Ter380:** Temperature (degrees Fahrenheit) at the 380' elevation.
- **SC-150:** Atmospheric Stability Class at the 150' elevation.
- **SC-380:** Atmospheric Stability Class at the 380' elevation.

The Dt150 and 380 values are not entirely reflected by the difference between individual temperatures at the 150' and 380' elevations. It is suspected that this is due to rounding errors within the recording system. Assume that the stability class values are correct in that regard.

The EAB and LPZ distances to be used are those that are found in the FSAR. The EAB distance is 414 meters (1358 feet) per FSAR Section 2.1.2. The LPZ distance is 3218 meters (2 miles) per FSAR Section 2.1.3.4. These distances are in relation to the centerline of the reactor.

PAVAN is to be used per NUREG/CR-2858 with the 13 wind speed categories discussed in NRC Regulatory Issue Summary 2006-04, "Experience With Implementation of Alternative Source Terms". These wind speed categories are: **calm, 0.5, 0.75, 1.0, 1.25, 1.5, 2.0, 3.0, 4.0, 5.0, 6.0, 8.0, and 10.0 meters per second.**

The main stack height is 112 meters above grade. The grade elevation is 23' 6".

If you have questions, please contact me at 610-765-5971.

**ENCLOSURE 2**

**CD – Oyster Creek Meteorological Data 1995, 1996, 1997, 1998, 1999  
(ARCON96 Format)**

**ENCLOSURE 3**

**Oyster Creek Site Map – Postulated Release Points and Receptor Points**

**(Figures 1, 2, and 3)**

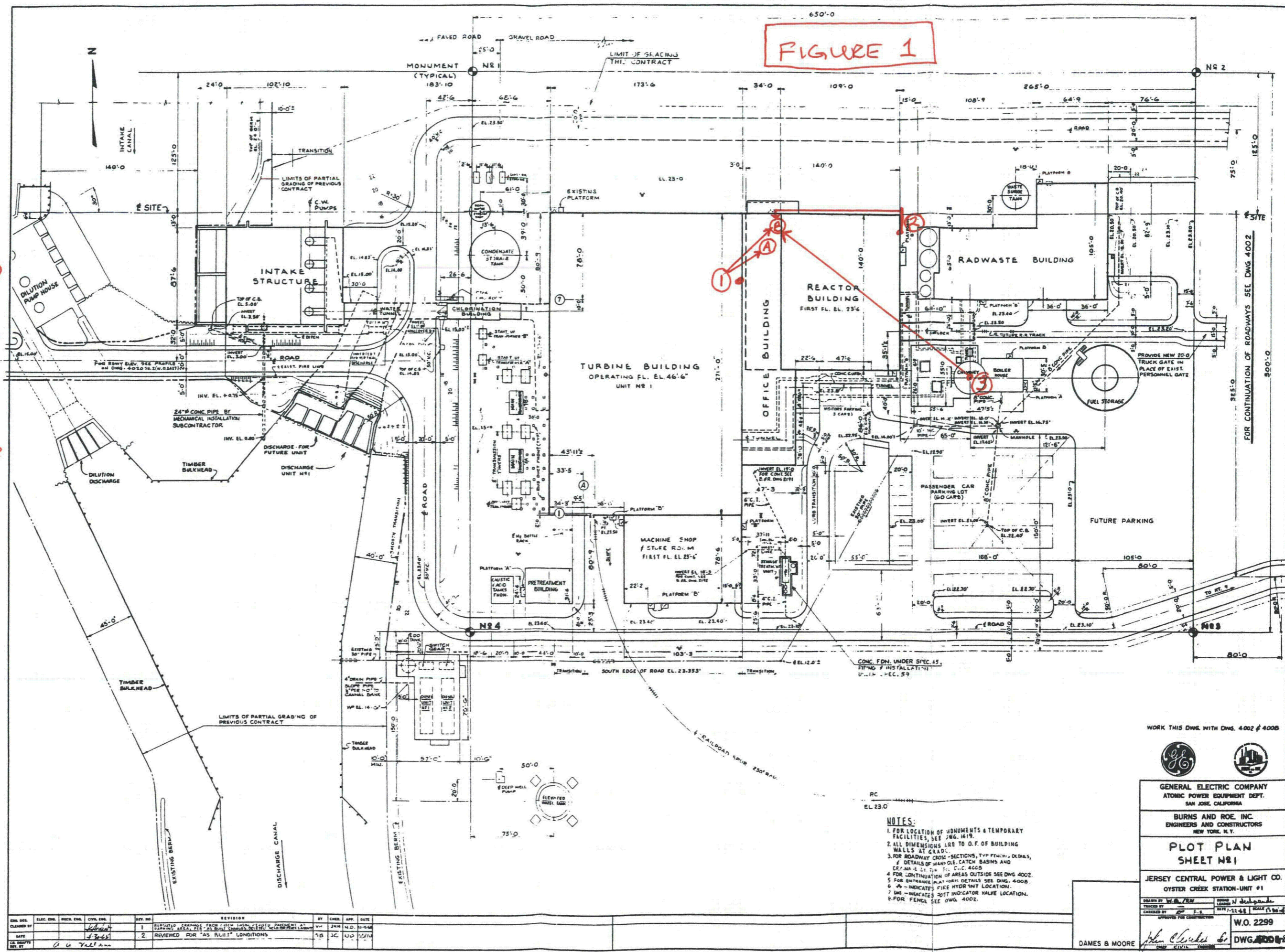
**FIGURE 1**

LOCATIONS

- Ⓐ = CR Intake "A"
- Ⓑ = CR Intake "B"
- ① = TB Release Point  
- MSIV leakage (LOCA)  
- MSLB
- ② Yard/N<sub>2</sub> Release Point  
- LOCA
- ③ Main Stack  
- LOCA  
- Containment Leakage  
- ESF Leakage  
- FHA  
- CRDA

DISTANCES

- ① to Ⓐ = 65'
- ① to Ⓑ = 49.5'
- ② to Ⓐ = 148.8'
- ② to Ⓑ = N/A
- ③ to Ⓐ = 221'
- ③ to Ⓑ = 221'



REV. NO.	DATE	BY	CHKD.	APP.	REVISION
1	10-10-68	JNH	JNH		REVISED GRADING FROM FIVE INCH TYPED PARALLEL AT 100' INTERVALS TO 2' AS BUILT CONDITIONS. SEE DWG. 4002 FOR FURTHER DETAILS.
2	10-22-68	JNB	JNB		REVIEWED FOR "AS BUILT" CONDITIONS.

**NOTES:**  
 1. FOR LOCATION OF MONUMENTS & TEMPORARY FACILITIES, SEE DWG. 1419.  
 2. ALL DIMENSIONS ARE TO O.F. OF BUILDING WALLS AT GRAD.  
 3. FOR ROADWAY CROSS-SECTIONS, TYP. FINISH, DETAILS, & DETAILS OF MANY-OLE. CATCH BASINS AND CR/NA & C.I. SEE S.C.C. 4000.  
 4. FOR CONTINUATION OF AREAS OUTSIDE SEE DWG. 4002.  
 5. FOR ENTRANCE PLANT DETAILS SEE DWG. 4008.  
 6. \* - INDICATES FIRE HYDRANT LOCATION.  
 7. DWG - INDICATES 30" ST. INDICATOR VALVE LOCATION.  
 8. FOR FENCE SEE DWG. 4002.

WORK THIS DWG. WITH DWG. 4002 & 4008

**GENERAL ELECTRIC COMPANY**  
 ATOMIC POWER EQUIPMENT DEPT.  
 SAN JOSE, CALIFORNIA

**BURNS AND ROE, INC.**  
 ENGINEERS AND CONSTRUCTORS  
 NEW YORK, N.Y.

**PLOT PLAN SHEET NO. 1**

**JERSEY CENTRAL POWER & LIGHT CO.**  
 OYSTER CREEK STATION - UNIT #1

DESIGNED BY: J. W. B. / J. W. B.  
 TRACED BY: J. W. B. / J. W. B.  
 CHECKED BY: J. W. B. / J. W. B.  
 APPROVED FOR CONSTRUCTION: J. W. B. / J. W. B.

W.O. 2299  
 DWG. 4002

DAMES & MOORE

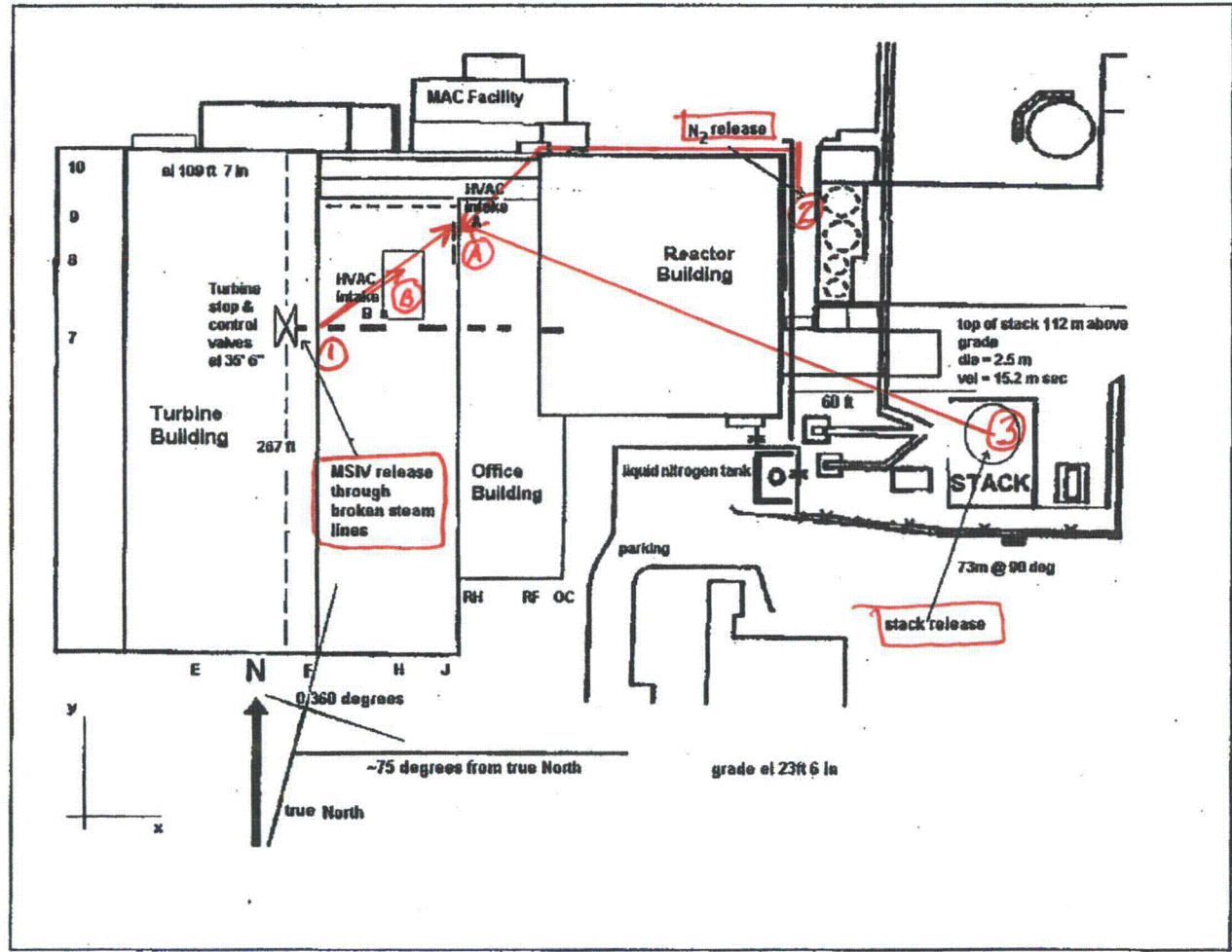


# CALCULATION SHEET

(Ref. EP-006)

<b>Subject:</b> OC Control Room air intake meteorology using ARCON96	<b>Calculation No.</b> C-1302-826-E540-017	<b>Rev. No.</b> 0	<b>System Nos.</b> 826	<b>Sheet</b> 80
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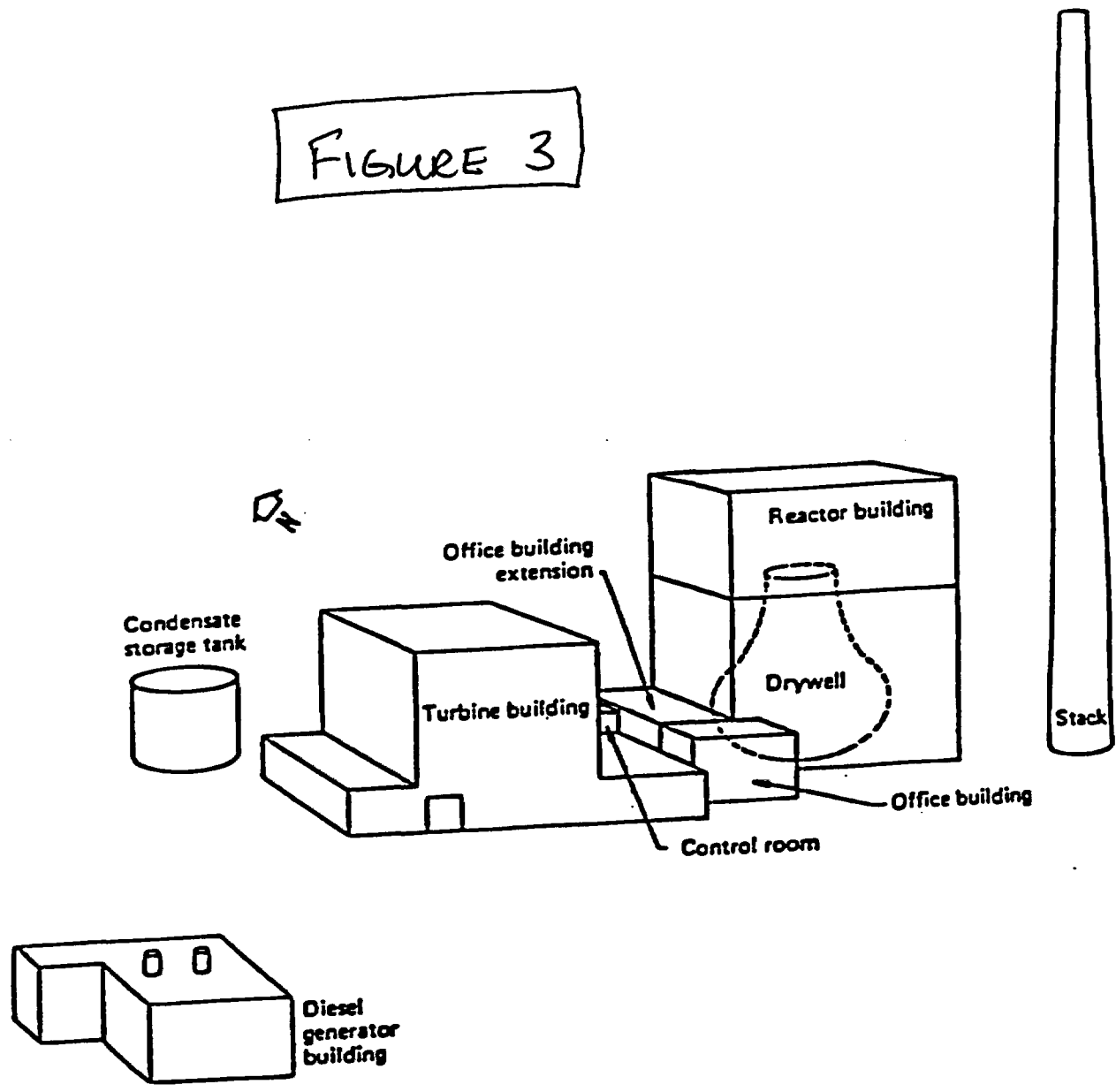
FIGURE 2



03/09/07 13:37:26

Figure 1 Site Plot Plan showing principal release points

FIGURE 3



**GPU Nuclear** Update - 5  
**Oyster Creek** 12/90  
Isometric of Oyster Creek Plant Showing  
Major Structures (Looking North)  
Fig. 3.8-38