

SEMIANNUAL EFFLUENT RELEASE REPORT SUMMARY (JULY-DEC. 1979)

(COMPARISON OF JULY-DEC., 1979 VS. JAN-JUNE, 1979)

A. GASEOUS

- ① NOBLE GAS VENT ACTIVITY - DOWN 33%
- ② NOBLE GAS STACK ACTIVITY - UP 310%
- ③ I-131 VENT ACTIVITY - UP 771%
- ④ I-131 STACK ACTIVITY - UP 2350%
- ⑤ PARTICULATE VENT ACTIVITY - UP 61%
- ⑥ PARTICULATE STACK ACTIVITY - DOWN 14%

B. LIQUID

TOTAL ACTIVITY RELEASED (EXCLUDING TRITIUM) - UP 12%

C. SOLID

- ① SPENT RESIN, SLUDGE, COMPRESSIBLE WASTES, CONTAMINATED EQUIPMENT SHIPPED OFFSITE (TOTAL ACTIVITY) - UP 75%
(TOTAL VOLUME) - DOWN 45%
- ② NUMBER OF WASTE SHIPMENTS - DOWN 50%

D. DOSE EVALUATION

Doses associated with the ingestion and inhalation pathways showed a factor of 2-10x increase over the previous reporting period. This is primarily due to the increase in I-131 activity released. Individual total body exposures were essentially unchanged. The total population (out to 50 miles) integrated whole body exposure (in man-rem) increased by a factor of 2.5x. This can be attributed to the increased release rate of noble gases from the stack as a result of Unit 2 fuel leaks.

800306042#5

BRUNSWICK STEAM ELECTRIC PLANT

Semiannual Environmental and Effluent Release Report

July 1, 1979 to December 31, 1979

Attachments

1. Effluent, Waste Disposal
2. Meteorological Data
3. Technical Specifications Changes
4. Ocean Outfall Thermal Monitoring
5. Maintenance Dredging in Intake Canal
6. Milk Useage Survey (Sample Station 35)

ATTACHMENT 1

EFFLUENT, WASTE DISPOSAL, AND POTENTIAL DOSES SEMIANNUAL REPORT

July - December 31, 1979

Brunswick Steam Electric Plant

Supplemental Information

Facility Brunswick Steam Electric Plant License Carolina Power & Light Co.

1. Regulatory Limits

a. Fission & activation gases

$$\Sigma \bar{E} \beta [1.5 Q_s + 575 Q_v] \leq 1 \text{ quarterly reporting average}$$

$$\Sigma \bar{E} \gamma [45 Q_s + 400 Q_v] \leq 1 \text{ quarterly reporting average}$$

$$\Sigma \bar{E} \beta [2.8 Q_s + 1160 Q_v] \leq 1 \text{ 12 consecutive month average}$$

$$\Sigma \bar{E} \gamma [90 Q_s + 800 Q_v] \leq 1 \text{ 12 consecutive month average}$$

b. I-131 and Particulates with half-lives >8 days

$$[3.26 \times 10^6] Q_s + [3.74 \times 10^7] Q_v \leq 1 \text{ quarterly reporting average}$$

$$[6.56 \times 10^6] Q_s + [7.46 \times 10^7] Q_v \leq 1 \text{ 12 consecutive month average}$$

c. Liquid effluents

20 Curies per calendar quarter

40 Curies per 12 consecutive months

2. Maximum Instantaneous Release Rates (10CFR20)

a. Fission & activation Gases

$$\Sigma Q_s [4.0 \bar{E} \gamma + 0.23 \bar{E} \beta] + Q_v [35 \bar{E} \gamma + 92 \bar{E} \beta] \leq 1$$

b. I-131 and Particulates with half-lives greater than eight days.

$$[3.7 \times 10^4] Q_s + [5.8 \times 10^6] Q_v \leq 1$$

c. Liquid Effluents

Values specified in 10CFR Part 20, Appendix B, Table II, Column 2 for unrestricted areas

3. Average Energy Stack

$$\bar{E} \gamma = .476 \text{ MeV} \quad \bar{E} \beta = .286 \text{ MeV}$$

Average Energy Ground

$$\bar{E} \gamma = .185 \text{ MeV}; \quad \bar{E} \beta = .261 \text{ MeV}$$

4. Measurements and Approximations of Total Radioactivity

- a. Fission and activation gases
Analysis for specific radionuclides in representative grab samples by gamma spectroscopy.
- b. Iodines
Analysis for specific radionuclides collected on charcoal cartridges by gamma spectroscopy.
- c. Particulates
Analysis for specific radionuclides collected on filter papers by gamma spectroscopy.
- d. Liquid effluents
Analysis for specific radionuclides by individual releases by gamma spectroscopy.

Relative variance for each measurement used in calculating activity values were combined using the additive property of variance. The square root of the combined variance was extracted to obtain an estimate of the standard deviation of the multistep process. The standard deviation was used to evaluate the error in the calculated activities at the 95% confidence level.

5. Batch Releases

- a. Liquid
 1. Number of batch releases: 211
 2. Total time period for batch releases: 47903 minutes
 3. Maximum time period for a batch release: 4290 minutes
 4. Average time period for batch release: 227 minutes
 5. Minimum time period for a batch release: 1 minute
 6. Average stream flow during periods of release of effluent into a flowing stream: not applicable.
- b. Gaseous
 1. Number of batch releases: none
 2. Total time period for a batch release: not applicable
 3. Maximum time period for a batch release: not applicable
 4. Average time period for a batch release: not applicable
 5. Minimum time period for a batch release: not applicable

6. Abnormal Release

a. Liquid

1. Number of releases: None
2. Total activity released: None

b. Gaseous

1. Number of releases: None
2. Total activity released: None

TABLE 1A
 EFFLUENT AND WASTE DISPOSAL SEMIANNUAL REPORT YEAR 1979
 GASEOUS EFFLUENTS-SUMMATION OF ALL RELEASES

	Unit I & II	Quarter III	Quarter IV	Est. Total Error
A. Fission & activation gases				
1. Total release	Ci	5.28E+4	3.56E+4	5.11
2. Average release rate for period	uCi/sec	6.69E+3	4.52E+3	
3. Percent of Technical Specification limit	%	1.06E+1	1.24E+1	
B. Iodines				
1. Total iodine-131	Ci	3.56E-1	3.26E-1	5.11
2. Average release rate for period	uCi/sec	4.52E-2	4.14E-2	
3. Percent of Technical Specification limit	%	1.13E+1	7.39E+0	
c. Particulates				
1. Particulates with half-lives of 8 days	Ci	3.92E-2	1.30E-1	9.81
2. Average release rate for period	uCi/sec	4.97E-3	1.65E-2	
3. Percent of Technical Specification limit	%	1.28E+1	5.55E+1	
4. Gross alpha radioactivity	Ci	1.09E-7	4.61E-7	
D. Tritium				
1. Total release	Ci	1.15E-1	2.08E+1	5.81
2. Average release rate for period	uCi/sec	1.46E-2	2.64E+0	
*3. Percent of Technical Specification limit	%	5.14E-4	9.32E-2	

* Based on 10 CFR 20 App. B limit of 4E-05uCi/ml for H₃ submersion in an unrestricted area

POOR ORIGINAL

TABLE 1B

EFFLUENT AND WASTE DISPOSAL SEMIANNUAL REPORT YEAR 1979
GASEOUS EFFLUENTS-ELEVATED RELEASE

Nuclides Released	Unit	Continuous Mode		Batch Mode	
		Quarter III	Quarter IV	Quarter	Quarter
1. Fission gases					
krypton-85	Ci	<MDA	<MDA		
krypton-85m	Ci	1.65E+3	1.87E+3		
krypton-87	Ci	3.12E+3	3.84E+3		
krypton-88	Ci	2.76E+3	3.47E+3		
xenon-133	Ci	7.43E+3	7.91E+3		
xenon-135	Ci	8.45E+3	9.12E+3		
xenon-135m	Ci	2.11E+4	1.79E+3		
xenon-138	Ci	2.86E+3	2.08E+3		
argon-41	Ci	3.81E+2	2.57E+2		
xenon-133m	Ci	2.16E+2	2.46E+2		
	Ci				
unidentified	Ci	2.46E+3	1.57E+3		
Total for Period	Ci	5.05E+4	3.22E+4		
2. Iodines					
iodine-131	Ci	1.59E-1	8.83E-2		
iodine-132	Ci	1.12E-2	6.53E-3		
iodine-133	Ci	1.28E-1	1.62E-1		
iodine-135	Ci	2.53E-2	3.79E-2		
Total for Period	Ci	3.24E-1	2.95E-1		
3. Particulates					
strontium-89	Ci	3.57E-3	-		
strontium-90	Ci	4.52E-6	-		
cesium-134	Ci	4.33E-5	6.71E-4		
cesium-137	Ci	1.98E-4	4.18E-5		
barium-lanthanum-140	Ci	3.58E-3	1.95E-3		
cobalt-58	Ci	5.16E-6	<MDA		
cobalt-60	Ci	3.40E-4	1.51E-4		
chromium-51	Ci	5.35E-4	3.39E-4		
zirconium-niobium-95	Ci	<MDA	<MDA		
zinc-65	Ci	2.61E-5	2.55E-6		
zinc-69m	Ci	<MDA	3.64E-5		
iron-59	Ci	2.18E-5	8.70E-6		
manganese-54	Ci	4.24E-4	1.56E-4		
iodine-131	Ci	7.55E-4	1.20E-4		
cerium-139	Ci	1.54E-6	6.03E-4		
cerium-144	Ci	2.31E-5	<MDA		
yttrium-88	Ci	<MDA	<MDA		
cadmium-109	Ci	<MDA	7.54E-5		
rhodium-106	Ci	<MDA	1.97E-5		
silver-110m	Ci	5.40E-6	1.80E-6		
unidentified	Ci	4.47E-4	1.96E-4		
Total for Period	Ci	9.98E-3	4.38E-3		

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TABLE 1C

EFFLUENT AND WASTE DISPOSAL SEMIANNUAL REPORT

YEAR 1979

GASEOUS EFFLUENTS-GROUND LEVEL RELEASES

Nuclides Released	Unit	Continuous Mode		Batch Mode	
		Quarter III	Quarter IV	Quarter	Quarter
1. Fission gases					
krypton-85	Ci	<MDA	<MDA		
krypton-85m	Ci	<MDA	<MDA		
krypton-87	Ci	<MDA	<MDA		
krypton-88	Ci	<MDA	<MDA		
xenon-133	Ci	5.52E+2	1.07E+3		
xenon-135	Ci	1.63E+3	2.1E+3		
xenon-135m	Ci	3.54E+0	<MDA		
xenon-138	Ci	<MDA	<MDA		
argon-41	Ci	<MDA	<MDA		
xenon-133m	Ci	2.67E+1	4.82E1		
	Ci				
unidentified	Ci	1.13E+2	1.65E+2		
Total for Period	Ci	2.32E+3	3.38E+3		
2. Halogens					
iodine-131	Ci	9.92E-5	7.92E-5		
iodine-132	Ci	2.74E-5	<MDA		
iodine-133	Ci	3.75E-3	7.24E-3		
iodine-135	Ci	7.99E-4	2.13E-4		
Total for Period	Ci	1.45E-2	1.54E-2		
3. Particulates					
strontium-89	Ci	1.33E-5	-		
strontium-90	Ci	4.76E-6	-		
cesium-134	Ci	3.90E-4	4.90E-4		
cesium-137	Ci	6.93E-4	7.95E-4		
barium-lanthanum-140	Ci	<MDA	4.82E-6		
cobalt-58	Ci	5.94E-4	1.15E-3		
cobalt-60	Ci	1.75E-3	3.58E-3		
chromium-51	Ci	1.74E-2	4.45E-2		
zirconium-niobium-95	Ci	<MDA	<MDA		
zinc-65	Ci	1.63E-5	3.29E-5		
iron-59	Ci	6.55E-4	1.28E-3		
manganese-54	Ci	2.60E-3	5.88E-2		
iodine-131	Ci	1.91E-3	2.90E-3		
cerium-139	Ci	<MDA	2.54E-5		
cerium-144	Ci	<MDA	<MDA		
yttrium-88	Ci	<MDA	<MDA		
cesium-136	Ci	<MDA	<MDA		
tin-117m	Ci	<MDA	<MDA		
antimony-122	Ci	1.37E-6	<MDA		
cobalt-57	Ci	<MDA	<MDA		
cadmium-109	Ci	1.25E-4	1.73E-4		
strontium-85	Ci	<MDA	7.55E-7		
tin-113	Ci	<MDA	1.21E-7		

TABLE 1C (Cont'd)

EFFLUENT AND WASTE DISPOSAL SEMIANNUAL REPORT

YEAR '1979

GASEOUS EFFLUENTS-GROUND LEVEL RELEASES

Nuclides Released	Unit	Continuous Mode		Batch Mode	
		Quarter III	Quarter IV	Quarter	Quarter
3. Particulates					
tin-113	Ci	<MDA	7.92E-8		
silver-110m	Ci	<MDA	5.81E-5		
mercury-203	Ci	<MDA	2.63E-6		
unidentified		6.39E-4	2.78E-3		
Total for Period		2.68E-2	1.17E-1		

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TABLE 2A

EFFLUENT AND WASTE DISPOSAL SEMIANNUAL REPORT YEAR 1979

LIQUID EFFLUENTS-SUMMATION OF ALL RELEASES

	Unit I & II	Quarter 3	Quarter 4	Est. Total Error, %
A. Fission activation products				
*1. Total release (not including tritium, gases, alpha)	Ci	2.45E+0	2.46E-1	11.30%
2. Average diluted concentration during period	uCi/ml	9.22E-8	3.36E-9	
3. Percent of applicable limit	%	1.23E+1	1.23E+0	
B. Tritium				
1. Total release	Ci	1.18E+1	6.57E+0	9.23%
2. Average diluted concentration during period	uCi/ml	1.61E-7	2.47E-7	
3. Percent of applicable limit	%	5.37E-3	8.23E-3	
C. Dissolved and entrained gases				
1. Total release	Ci	3.08E-2	3.18E-1	6.12%
2. Average diluted concentration during period	uCi/ml	4.20E-10	1.19E-8	
3. Percent of applicable limit	%	1.40E-2	4.00E-1	
D. Gross alpha radioactivity				
Total release	Ci	1.35E-5	4.67E-4	74.37%
E. Volume of waste released (prior to dilution)				
	liters	7.35E+6	4.32E+6	5.66%
F. Volume of dilution water used during period				
	liters	7.32E+10	2.66E+10	11.00%

*Includes Estimated Total Error

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NOTE ON ESTIMATED TOTAL ERROR
IN GROSS ALPHA RADIOACTIVITY (FROM TABLE 2A)

It is difficult to obtain a counting error for gross alpha due to the extremely small amount of alpha activity present in the liquid effluent samples. The counting error combined with sampling error resulted in an estimated total error of 74.4%. Assuming the worst possible case by taking the total curies released for both quarters, adding 74.4% of this to the total, and converting to $\mu\text{Ci/ml}$, an undiluted concentration of $7.18\text{E-}8 \mu\text{Ci/ml}$ is obtained. This value is below the Environmental Technical Specification monthly liquid composite minimum detectable concentration for gross alpha of $1.0\text{E-}7 \mu\text{Ci/ml}$.

TABLE 2B

EFFLUENT AND WASTE DISPOSAL SEMIANNUAL REPORT YEAR 1979

LIQUID EFFLUENTS

Nuclides Released	Unit	Batch Mode		Continuous Mode	
		Quarter III	Quarter IV	Quarter	Quarter
iodine-133	Ci	1.56E-2	4.08E-4		
iodine-132	Ci	<MDA	6.30E-7		
antimony-122	Ci	1.232E-2	1.05E-3		
antimony-124	Ci	<MDA	<MDA		
cobalt-57	Ci	<MDA	<MDA		

cesium-136	Ci	1.66E-4	1.61E-5		
cesium-138	Ci	<MDA	<MDA		
cerium-144	Ci	<MDA	<MDA		
yttrium-91m	Ci	<MDA	<MDA		
tellurium-129m	Ci	<MDA	<MDA		
strontium-85	Ci	2.32E-5	<MDA		

niobium-97m	Ci	<MDA	<MDA		
zirconium-97	Ci	<MDA	<MDA		
tin-113	Ci	<MDA	<MDA		
tin-117m	Ci	<MDA	1.06E-4		
indium-113m	Ci	<MDA	<MDA		

barium-139	Ci	2.96E-6	<MDA		
cerium-139	Ci	5.55E-7	<MDA		
strontium-91	Ci	<MDA	<MDA		
technitium-101	Ci	<MDA	<MDA		
tellurium-132	Ci	<MDA	<MDA		
tungsten-187	Ci	<MDA	<MDA		
continued on Table 2B-1					

Dissolved and Entrained Gases

xenon-133m	Ci	<MDA	1.81E-3		
xenon-135m	Ci	1.16E-4	6.74E-3		
krypton-85	Ci	5.75E-3	<MDA		
krypton-85m	Ci	<MDA	3.77E-5		
argon-41	Ci	4.93E-5	7.99E-5		
xenon-131m	Ci	<MDA	9.70E-4		
xenon-133	Ci	2.28E-2	2.48E-1		
xenon-135	Ci	2.06E-3	6.08E-2		
Total for Period	Ci	3.08E-3	3.18E-1		

TABLE 2B-1

EFFLUENT AND WASTE DISPOSAL SEMIANNUAL REPORT YEAR 1979

LIQUID EFFLUENTS

Nuclides Released	Unit	Batch Mode		Continuous Mode	
		Quarter III	Quarter IV	Quarter	Quarter
strontium-89	Ci				
strontium-90	Ci				
cesium-134	Ci	1.06E-1	9.42E-3		
cesium-137	Ci	1.87E-1	1.60E-2		
iodine-131	Ci	2.06E-1	3.98E-3		
cobalt-58	Ci	2.60E-2	4.17E-3		
cobalt-60	Ci	1.15E-1	2.81E-2		
iron-59	Ci	2.10E-3	2.64E-3		
zinc-65	Ci	1.91E-3	4.90E-4		
manganese-54	Ci	1.25E-1	1.99E-2		
chromium-51	Ci	2.08E-1	4.16E-2		
zirconium-niobium-95	Ci	3.46E-4	<MDA		
molybdenum-99	Ci	2.95E-3	<MDA		
technetium-99m	Ci	1.01E-2	3.36E-4		
barium-lanthanum-140	Ci	<MDA	<MDA		
cerium-141	Ci	<MDA	<MDA		
fluorine-18	Ci	7.73E-2	9.28E-3		
sodium-24	Ci	1.15E-0	8.26E-2		
manganese-56	Ci	<MDA	3.28E-5		
copper-64	Ci	1.64E-1	1.96E-2		
arsenic-76	Ci	9.04E-3	3.53E-4		
niobium-97	Ci	<MDA	3.16E-5		
strontium-85	Ci	2.32E-5	<MDA		
neptunium-239	Ci	<MDA	<MDA		
strontium-92	Ci	2.52E-7	<MDA		
silver-110m	Ci	<MDA	<MDA		
nickel-65	Ci	<MDA	<MDA		
unidentified	Ci	3.33E-2	5.64E-3		
Total for period (above)	Ci	2.45E00	2.46E-1		

MINIMUM DETECTABLE ACTIVITIES ($\mu\text{Ci/ml}$)

1. Liquid Releases

Mn-56	1.77E-8
Sr-85	2.32E-8
Sr-92	1.65E-8
Zr-95	3.62E-8
Nb-95	1.79E-8
Nb-97	1.65E-8
Mo-99	1.55E-7
Sn-117m	2.07E-8
I-132	1.56E-8
Ba-139	5.47E-8
Ce-136	1.96E-8

2. Noble Gases

Ar-41	1.02E-7
Kr-85	1.98E-5
Xe-131m	3.31E-6
Xe-133m	6.49E-7
Xe-135m	6.45E-7
Xe-138	1.92E-6

3. Particulates and Iodines

Co-57	3.06E-14
Co-58	1.94E-14
Zn-69m	4.31E-14
Hg-203	2.95E-14
I-132	1.59E-12
Sr-85	2.66E-14
Zr-95	4.28E-14
Nb-95	3.13E-14
Ag-110m	2.99E-14
Sn-113	2.32E-14
Sb-122	3.97E-14
Cs-137	2.43E-14
Ba-140	1.13E-13
La-140	4.79E-14
Ce-139	3.37E-14
Ce-144	2.35E-13

SOLID WASTE AND IRRADIATED FUEL SHIPMENTS

A. Solid Waste Shipped Offsite for Burial or Disposal (Not irradiated fuel)

1. Type of Waste	Unit	6-month period	Est. Total Error, %
a. Spent resins, filter sludges, evaporated bottoms, etc.	m ³	2.75E02	
	Ci	2.71E03	1.50E01
b. Dry compressible waste, contaminated equip., etc.	m ³	8.28E02	
	Ci	1.81E01	2.00E01
c. Irradiated components, control rods, etc.	m ³	0.00E00	
	Ci	0.00E00	0.00E00
d. Other (describe)	m ³	0.00E00	
	Ci	0.00E00	0.00E00

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

A + B	Cr-51	%	5.01E01
	Mn-54	%	2.03E-01
	Cr-60	%	1.55E01
	Co-58	%	4.71E00
	Fe-59	%	3.74E00
	Cs-137	%	1.96E00
	Cs-134	%	1.42E00
	I-131	%	1.09E00
	Zn-65	%	9.41E-01
	Sb-122	%	2.87E-01
	Nb-95	%	1.05E-02
	Zr-95	%	2.50E-03
		%	
C	None	%	
		%	
		%	
		%	
		%	
		%	
D	None	%	

3. Solid Waste Disposition

<u>Number of Shipments</u>	<u>Mode of Transportation</u>	<u>Destination</u>
103	Sole Use Vehicle	Chem-Nuclear Systems, Inc. Barnwell, S. C.

B. Irradiated Fuel Shipments (Disposition)

<u>Number of Shipments</u>	<u>Mode of Transportation</u>	<u>Destination</u>
0	N/A	N/A

POOR ORIGINAL

SHORELINE SEDIMENT DOSE AT CANAL, MREM/6 MOS.

	CHILD	TEEN	ADULT
WHOLE BODY	7.72E-07	3.69E-06	6.61E-07
SKIN	9.04E-07	4.33E-06	7.75E-07

LIQUID EFFLUENT DATA USED IN SHORELINE DOSE CALCULATIONS

DOSE DUE TO EATING FISH CAUGHT IN DISCHARGE CANAL, MREM/6 MOS

	CHILD	TEEN	ADULT
BONE	1.62E-05	1.31E-05	1.25E-05
LIVER	2.33E-05	2.72E-05	2.66E-05
WHOLE BODY	6.06E-06	1.08E-05	1.68E-05
THYROID	4.49E-05	4.35E-05	4.65E-05
KIDNEY	7.29E-06	8.82E-06	8.70E-06
LUNG	2.36E-06	3.00E-06	2.54E-06
GI-LLI	8.61E-06	2.36E-05	3.33E-05

LIQUID EFFLUENT DATA USED IN FISH DOSE CALCULATIONS

DOSE DUE TO EATING GREEN LEAFY VEGS. FROM WORST GARDEN, MREM/6 MOS

	CHILD	TEEN	ADULT
BONE	8.96E-04	5.10E-04	5.71E-04
LIVER	9.78E-04	7.79E-04	9.24E-04
WHOLE BODY	4.76E-04	4.44E-04	6.92E-04
THYROID	9.45E-02	6.37E-02	7.91E-02
KIDNEY	7.83E-04	6.39E-04	7.59E-04
LUNG	2.07E-04	1.77E-04	2.40E-04
GI-LLI	3.43E-04	5.06E-04	8.15E-04

DOSES CALCULATED FROM GASEOUS EFFLUENT DATA

DOSE DUE TO EATING PRODUCE FROM WORST GARDEN, MREM/6 MOS

	CHILD	TEEN	ADULT
BONE	8.85E-03	3.53E-03	2.18E-03
LIVER	1.81E-02	6.12E-03	4.04E-03
WHOLE BODY	4.56E-03	3.60E-03	3.32E-03
THYROID	1.10E-02	5.86E-03	4.15E-03
KIDNEY	4.67E-03	2.93E-03	2.09E-03
LUNG	3.88E-03	1.97E-03	1.45E-03
GI-LLI	4.20E-03	4.40E-03	3.88E-03

DOSES CALCULATED FROM GASEOUS EFFLUENT DATA

DOSES CALCULATED FOR MAXIMUM EXPOSED INDIVIDUAL

POOR ORIGINAL

1-131 DOSE DUE TO DRINKING MILK, MREM/6 MOS

	INFANT	CHILD	TEEN	ADULT
BONE	9.00E-03	4.31E-03	1.78E-03	9.80E-04
LIVER	1.06E-02	4.34E-03	2.49E-03	1.40E-03
WHOLE BODY	4.66E-03	2.46E-03	1.34E-03	8.33E-04
THYROID	3.49E+00	1.43E+00	7.26E-01	4.59E-01
KIDNEY	1.24E-02	7.12E-03	4.29E-03	2.40E-03
LUNG	0.00E+00	0.00E+00	0.00E+00	0.00E+00
GI-LLI	3.79E-04	3.86E-04	4.92E-04	3.70E-04

TOTAL DOSE DUE TO DRINKING MILK, MREM/6 MOS

	INFANT	CHILD	TEEN	ADULT
BONE	3.12E-02	1.82E-02	7.62E-03	4.26E-03
LIVER	4.29E-02	2.10E-02	1.29E-02	7.56E-03
WHOLE BODY	1.02E-02	7.15E-03	6.18E-03	5.50E-03
THYROID	3.51E+00	1.45E+00	7.32E-01	4.63E-01
KIDNEY	2.30E-02	1.39E-02	8.51E-03	5.05E-03
LUNG	5.76E-03	3.52E-03	2.28E-03	1.43E-03
GI-LLI	3.80E-03	2.84E-03	2.63E-03	2.09E-03

DOSES EVALUATED FOR STEVENS' FARM (MK-35)

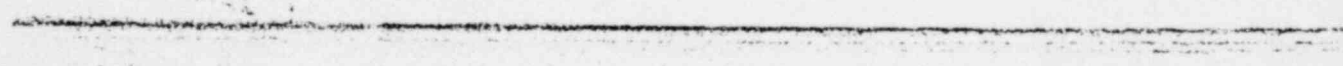
I-131 INHALATION DOSE AT WORST POINT ON SITE BOUNDARY, MREM/6 MOS

	INFANT	CHILD	TEEN	ADULT
BONE	8.77E-05	1.11E-04	8.19E-05	5.83E-05
LIVER	1.03E-04	1.11E-04	1.14E-04	8.27E-05
WHOLE BODY	4.53E-05	6.31E-05	6.10E-05	4.74E-05
THYROID	3.43E-02	3.78E-02	3.39E-02	2.76E-02
KIDNEY	1.20E-04	1.82E-04	1.94E-04	1.42E-04
LUNG	0.00E+00	0.00E+00	0.00E+00	0.00E+00
GI-LLI	2.45E-06	6.57E-06	1.50E-05	1.45E-05

TOTAL INHALATION DOSE AT WORST POINT ON SITE BOUNDARY, MREM/6 MOS

	INFANT	CHILD	TEEN	ADULT
BONE	2.41E-04	3.74E-04	2.94E-04	2.21E-04
LIVER	1.56E-03	2.57E-03	2.88E-03	2.75E-03
WHOLE BODY	1.33E-03	2.31E-03	2.65E-03	2.64E-03
THYROID	3.99E-02	4.44E-02	3.98E-02	3.26E-02
KIDNEY	1.44E-03	2.48E-03	2.79E-03	2.68E-03
LUNG	4.90E-03	7.61E-03	9.42E-03	7.24E-03
GI-LLI	1.29E-03	2.29E-03	2.75E-03	2.76E-03

GASEOUS EFFLUENT DATA USED IN INHALATION DOSE CALCULATIONS



POOR ORIGINAL

DOSE FROM NOBLE GAS RELEASES-SKIN
MREM 6 NOS

	RADIAL DISTANCE, MILES				
	0.5	1.5	2.5	3.5	4.5
S	1.46E+00	7.00E-01	4.60E-01	3.35E-01	2.56E-01
SSW	9.19E-01	5.57E-01	4.28E-01	3.33E-01	2.66E-01
SW	5.99E-01	3.84E-01	2.99E-01	2.35E-01	1.89E-01
WSW	4.84E-01	3.13E-01	2.42E-01	1.90E-01	1.54E-01
W	4.39E-01	3.05E-01	2.55E-01	2.03E-01	1.64E-01
WNW	3.38E-01	2.22E-01	1.82E-01	1.43E-01	1.13E-01
NW	4.69E-01	2.70E-01	2.09E-01	1.56E-01	1.25E-01
NNW	4.74E-01	3.06E-01	2.53E-01	2.08E-01	1.72E-01
N	5.15E-01	3.48E-01	2.96E-01	2.40E-01	1.94E-01
NNE	6.40E-01	5.35E-01	4.59E-01	3.64E-01	2.91E-01
NE	9.16E-01	6.90E-01	5.72E-01	4.69E-01	3.80E-01
ENE	9.20E-01	5.12E-01	4.00E-01	3.24E-01	2.67E-01
E	1.10E+00	5.27E-01	3.64E-01	2.79E-01	2.24E-01
ESE	9.27E-01	4.48E-01	3.04E-01	2.26E-01	1.47E-01
SE	1.06E+00	4.46E-01	2.71E-01	1.93E-01	1.47E-01
SSE	1.57E+00	6.82E-01	2.41E-01	2.99E-01	2.26E-01

	RADIAL DISTANCE, MILES				
	7.5	15.0	25.0	35.0	45.0
S	1.42E-01	5.97E-02	3.86E-02	1.97E-02	1.42E-02
SSW	1.56E-01	7.07E-02	3.78E-02	2.49E-02	1.82E-02
SW	1.14E-01	5.39E-02	5.10E-02	2.03E-02	1.51E-02
WSW	9.30E-02	4.41E-02	2.46E-02	1.66E-02	1.23E-02
W	9.97E-02	4.77E-02	2.68E-02	1.81E-02	1.35E-02
WNW	6.48E-02	2.86E-02	1.52E-02	9.96E-03	7.28E-03
NW	7.41E-02	3.44E-02	1.89E-02	1.26E-02	9.33E-03
NNW	1.07E-01	5.18E-02	3.02E-02	1.98E-02	1.45E-02
N	1.17E-01	5.62E-02	3.11E-02	2.11E-02	1.58E-02
NNE	1.68E-01	7.39E-02	3.85E-02	2.49E-02	1.79E-02
NE	2.24E-01	1.01E-01	5.41E-02	3.55E-02	2.58E-02
ENE	1.67E-01	8.15E-02	4.60E-02	3.11E-02	2.31E-02
E	1.36E-01	6.54E-02	3.73E-02	2.55E-02	1.92E-02
ESE	1.01E-01	4.57E-02	2.47E-02	1.64E-02	9.25E-03
SE	8.18E-02	3.56E-02	1.90E-02	1.26E-02	9.25E-03
SSE	1.23E-01	5.16E-02	2.65E-02	1.72E-02	1.24E-02

POOR ORIGINAL

DOSE FROM NOBLE GAS RELEASES-T. BODY
MREM/6 MOS

	RADIAL DISTANCE, MILES				
	0.5	1.5	2.5	3.5	4.5
S	5.69E-01	2.98E-01	2.07E-01	1.53E-01	1.18E-01
SSW	3.64E-01	2.47E-01	2.00E-01	1.59E-01	1.28E-01
SW	2.42E-01	1.74E-01	1.42E-01	1.14E-01	9.21E-02
WSW	1.97E-01	1.42E-01	1.15E-01	9.21E-02	7.50E-02
N	1.78E-01	1.40E-01	1.22E-01	9.88E-02	8.06E-02
WNW	1.38E-01	1.02E-01	8.74E-02	6.97E-02	5.52E-02
NW	1.97E-01	1.23E-01	9.51E-02	7.57E-02	6.00E-02
NNW	1.92E-01	1.39E-01	1.21E-01	1.01E-01	8.41E-02
N	2.08E-01	1.59E-01	1.42E-01	1.17E-01	9.55E-02
NNE	2.65E-01	2.51E-01	2.24E-01	1.80E-01	1.44E-01
NE	3.86E-01	3.73E-01	2.78E-01	2.31E-01	1.88E-01
ENE	3.59E-01	2.23E-01	1.86E-01	1.54E-01	1.20E-01
E	4.25E-01	2.22E-01	1.63E-01	1.28E-01	1.04E-01
ESE	3.59E-01	1.91E-01	1.37E-01	1.04E-01	6.56E-02
SE	4.09E-01	1.84E-01	1.18E-01	8.53E-02	6.56E-02
SSE	6.11E-01	2.85E-01	9.31E-02	1.33E-01	1.02E-01

	RADIAL DISTANCE, MILES				
	7.5	15.0	25.0	35.0	45.0
S	6.62E-02	2.82E-02	1.46E-02	9.43E-03	6.83E-03
SSW	7.62E-02	3.48E-02	1.87E-02	1.24E-02	9.66E-03
SW	5.59E-02	2.67E-02	2.38E-02	1.01E-02	7.55E-03
WSW	4.57E-02	2.19E-02	1.23E-02	8.28E-03	6.16E-03
W	4.93E-02	2.36E-02	1.34E-02	9.09E-03	6.79E-03
WNW	3.19E-02	1.42E-02	7.54E-03	4.97E-03	3.64E-03
NW	3.64E-02	1.71E-02	9.41E-03	6.31E-03	4.67E-03
NNW	5.27E-02	2.58E-02	1.51E-02	9.81E-03	7.29E-03
N	5.81E-02	2.80E-02	1.56E-02	1.06E-02	7.95E-03
NNE	8.39E-02	3.70E-02	1.93E-02	1.25E-02	9.04E-03
NE	1.12E-01	5.08E-02	2.72E-02	1.78E-02	1.36E-02
ENE	8.11E-02	4.01E-02	2.28E-02	1.55E-02	1.15E-02
E	6.43E-02	3.16E-02	1.82E-02	1.25E-02	9.46E-03
ESE	4.77E-02	2.18E-02	1.19E-02	7.98E-03	4.39E-03
SE	3.71E-02	1.64E-02	8.88E-03	5.93E-03	4.39E-03
SSE	5.62E-02	2.38E-02	1.24E-02	8.06E-03	5.87E-03

POOR ORIGINAL

POPULATION INTEGRATED WHOLE BODY DOSE, MAN-REM/6 MOS

	RADIAL DISTANCE, MILES				
	0.5	1.5	2.5	3.5	4.5
S	2.84E-03	1.19E-02	1.44E-01	0.00E+00	0.00E+00
SSW	0.00E+00	3.98E-02	4.12E-01	0.00E+00	1.00E-02
SW	7.74E-03	1.11E-02	0.00E+00	9.09E-04	0.00E+00
WSW	0.00E+00	9.80E-03	9.21E-04	2.95E-03	3.75E-04
W	1.42E-03	4.61E-03	1.96E-03	0.00E+00	0.00E+00
WNW	2.22E-03	8.13E-04	0.00E+00	0.00E+00	0.00E+00
NW	1.57E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00
NNW	3.84E-03	5.55E-04	0.00E+00	0.00E+00	0.00E+00
N	4.16E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00
NNE	0.00E+00	4.02E-03	0.00E+00	0.00E+00	0.00E+00
NE	0.00E+00	6.47E-03	0.00E+00	0.00E+00	0.00E+00
ENE	0.00E+00	2.68E-03	0.00E+00	0.00E+00	0.00E+00
E	0.00E+00	3.55E-03	0.00E+00	0.00E+00	0.00E+00
ESE	0.00E+00	4.00E-03	0.00E+00	0.00E+00	0.00E+00
SE	1.47E-02	2.21E-03	0.00E+00	0.00E+00	0.00E+00
SSE	0.00E+00	1.14E-03	0.00E+00	0.00E+00	0.00E+00

	RADIAL DISTANCE, MILES				
	7.5	15.0	25.0	35.0	45.0
S	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
SSW	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
SW	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
WSW	7.91E-03	0.00E+00	0.00E+00	0.87E-03	1.40E-02
W	2.52E-03	3.01E-02	5.31E-02	4.55E-02	4.63E-02
WNW	3.96E-03	1.92E-02	1.32E-02	1.79E-02	5.13E-02
NW	5.58E-03	3.38E-02	2.27E-02	2.27E-02	2.65E-02
NNW	8.06E-03	3.03E-02	5.40E-02	2.60E-02	2.49E-02
N	5.29E-03	2.71E-01	1.59E-01	3.91E-02	5.19E-02
NNE	2.31E-02	1.92E+00	4.43E-01	3.63E-02	1.79E-02
NE	2.41E-01	0.00E+00	0.00E+00	2.16E-03	3.20E-02
ENE	6.36E-02	0.00E+00	0.00E+00	0.00E+00	0.00E+00
E	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
ESE	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
SE	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
SSE	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00

TOTAL POPULATION INTEGRATED WHOLE BODY DOSE= 4.59E+00MAN-REM/6MOS

GASEOUS EFFLUENT DATA USED IN THESE DOSE CALCULATIONS
DOSES CALCULATED FOR MAXIMUM EXPOSED INDIVIDUALS

POOR ORIGINAL

POPULATION INTEGRATED INHALATION DOSE
MAN-REM/6 MOS OR THYROID MAN-REM/6 MOS

	INFANT	CHILD	TEEN	ADULT
WHOLE BODY	2.88E-03	4.82E-02	3.14E-02	1.51E-01
THYROID	2.18E-01	2.71E+00	1.65E+00	6.49E+00

GASEOUS EFFLUENT DATA USED IN THESE DOSE CALCULATIONS
DOSES CALCULATED FOR MAXIMUM EXPOSED INDIVIDUALS

ATTACHMENT 2

METROLOGICAL DATA

- Enclosure 1: Joint Frequency of Wind Direction and Speed, Third Quarter
- Enclosure 2: Joint Frequency of Wind Direction and Speed, Forth Quarter
- Enclosure 3: Diffusion Analysis, Ground Level Release
- Enclosure 4: Diffusion Analysis, Elevated Release
- Enclosure 5: Meteorological Data for Diffusion Analysis

July - December 31, 1979

Brunswick Steam Electric Plant

RECEIVED

ENCLOSURE 1

JAN 21 1980

JOINT FREQUENCY OF WIND DIRECTION AND SPEED
THIRD QUARTER 1979
BRUNSWICK STEAM ELECTRIC PLANT

BSEP

The attached tables present the frequency of wind direction occurrences by wind speed class as recorded at the on-site meteorological system during the period July 1 through September 30, 1979.

The frequencies are presented as a percent of total occurrences for each stability class as well as a summary for all classes for each sensor elevation. The first eight tables are for the upper sensor elevation (100 meter); the last eight tables are for the lower (10 meter) sensor elevation.

Pertinent information available from the tables is as follows:

1. Stability

Percent occurrence Pasquill categories:

<u>A</u>	<u>B</u>	<u>C</u>	<u>D</u>	<u>E</u>	<u>F</u>	<u>G</u>
1.5	1.0	4.0	41.3	38.2	11.5	2.5

2.	<u>Wind Speed</u>	<u>10 Meter</u>	<u>100 Meter</u>
	Average Speed (mph)	8.2	14.3
	Percent Calm	0.1	0.0
	Percent Less than 3.5 mph	15.6	0.7
3.	<u>Wind Direction</u>	<u>10 Meter</u>	<u>100 Meter</u>
	Prevailing Direction	SW	SW
	Percent Occurrence	14.0	16.7
4.	<u>Data Recovery</u>	<u>10 Meter</u>	<u>100 Meter</u>
	Percent Good Hours	99.7	99.7

JOINT PERCENTAGE FREQUENCIES OF WIND DIRECTION AND SPEED
FOR THE PERIOD 12:00 AM 7/ 1/79 TO 11:00 PM 9/30/79STABILITY CLASS C
STABILITY CALCULATED FROM DIFF. TEMPERATURE #1+2

BRUNSWICK ON-SITE METEOROLOGICAL FACILITY

UPPER WIND DIRECTION	CALM	SPEED CLASS (MPH)						TOTAL	AVG. WIND SPEED
		0.75- 3.5	3.5- 7.5	7.5-12.5	12.5-18.5	18.5-25.0	GREATER THAN 25.0		
N	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
NNE	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
NE	0.0	0.0	0.0	0.4541E-01	0.4541E-01	0.9083E-01	0.0	0.1817E+00	0.1546E+02
ENE	0.0	0.0	0.0	0.1362E+00	0.1362E+00	0.4541E-01	0.0	0.3179E+00	0.1431E+02
E	0.0	0.0	0.0	0.9083E-01	0.4541E-01	0.9083E-01	0.4541E-01	0.2725E+00	0.1002E+02
ESE	0.0	0.0	0.0	0.1817E+00	0.1817E+00	0.0	0.0	0.3633E+00	0.1326E+02
SE	0.0	0.0	0.0	0.3179E+00	0.1362E+00	0.0	0.9083E-01	0.5450E+00	0.1366E+02
SSE	0.0	0.0	0.0	0.1362E+00	0.1362E+00	0.0	0.0	0.2725E+00	0.1226E+02
S	0.0	0.0	0.0	0.9083E-01	0.1362E+00	0.0	0.0	0.2271E+00	0.1280E+02
SSW	0.0	0.0	0.0	0.1362E+00	0.1817E+00	0.0	0.9083E-01	0.4087E+00	0.1585E+02
SW	0.0	0.0	0.0	0.0	0.6358E+00	0.5450E+00	0.0	0.1181E+01	0.1846E+02
WSW	0.0	0.0	0.0	0.4541E-01	0.0	0.9083E-01	0.0	0.1362E+00	0.1694E+02
W	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
WNW	0.0	0.0	0.0	0.0	0.0	0.4541E-01	0.0	0.4541E-01	0.2150E+02
NW	0.0	0.0	0.0	0.4541E-01	0.0	0.0	0.0	0.4541E-01	0.1023E+02
NNW	0.0	0.0	0.0	0.4541E-01	0.0	0.0	0.0	0.4541E-01	0.8050E+01
TOTAL	0.0	0.0	0.0	0.1272E+01	0.1635E+01	0.9083E+00	0.2271E+00	0.4042E+01	0.1468E+02

NUMBER OF CALMS - 0
NUMBER OF BAD HOURS - 0

JOINT PERCENTAGE FREQUENCIES OF WIND DIRECTION AND SPEED
FOR THE PERIOD 12:00 AM 7/1/79 TO 11:00 PM 9/30/79

STABILITY CLASS 0
STABILITY CALCULATED FROM DIFF. TEMPERATURE #1+2

BRUNSWICK ON-SITE METEOROLOGICAL FACILITY

UPPER WIND DIRECTION	CALM	SPEED CLASS (MPH)					GREATER THAN 25.0	TOTAL	AVG. WIND SPEED
		3.5-7.5	7.5-12.5	12.5-18.5	18.5-25.0				
N	0.0	0.4541E-01	0.9083E-01	0.1090E+01	0.1720E+01	0.4541E-01	0.0	0.0097E+01	0.1322E+02
NNE	0.0	0.5541E-01	0.1362E+00	0.7266E+00	0.1771E+01	0.5541E+00	0.0	0.3134E+01	0.1478E+02
NE	0.0	0.4541E-01	0.2271E+00	0.3179E+00	0.1090E+01	0.8174E+00	0.0	0.2498E+01	0.1536E+02
ENE	0.0	0.0	0.4541E-01	0.4995E+00	0.6917E+00	0.8174E+00	0.0	0.2044E+01	0.1619E+02
E	0.0	0.0	0.2725E+00	0.5905E+00	0.7720E+00	0.5541E+00	0.0	0.2089E+01	0.1510E+02
ESE	0.0	0.0	0.2271E+00	0.4995E+00	0.5904E+00	0.9083E-01	0.0	0.1408E+01	0.1218E+02
SE	0.0	0.0	0.3179E+00	0.4995E+00	0.1817E+00	0.0	0.1817E+00	0.1181E+01	0.1219E+02
SSE	0.0	0.0	0.9083E-01	0.6812E+00	0.4541E+00	0.0	0.9083E-01	0.1317E+01	0.1229E+02
S	0.0	0.0	0.1362E+00	0.1135E+01	0.7720E+00	0.4087E+00	0.9083E-01	0.2543E+01	0.1385E+02
SSW	0.0	0.0	0.4995E+00	0.2044E+01	0.2543E+01	0.7266E+00	0.1362E+01	0.7175E+01	0.1723E+02
SW	0.0	0.0	0.2725E+00	0.1272E+01	0.2725E+01	0.2225E+01	0.7266E+00	0.7221E+01	0.1743E+02
WSW	0.0	0.0	0.5450E+00	0.7266E+00	0.7720E+00	0.9083E-01	0.0	0.2134E+01	0.1150E+02
W	0.0	0.4541E-01	0.4087E+00	0.6812E+00	0.4541E-01	0.0	0.0	0.1181E+01	0.8460E+01
WNW	0.0	0.0	0.2725E+00	0.8629E+00	0.5353E+00	0.9083E-01	0.0	0.1862E+01	0.1156E+02
NW	0.0	0.0	0.2271E+00	0.3633E+00	0.3179E+00	0.4541E-01	0.0	0.9537E+00	0.1111E+02
NNW	0.0	0.0	0.4995E+00	0.7720E+00	0.2271E+00	0.1362E+00	0.0	0.1544E+01	0.1053E+02
TOTAL	0.0	0.1017E+00	0.5417E+01	0.1276E+02	0.1530E+02	0.6603E+01	0.2652E+01	0.5428E+02	0.1325E+02

NUMBER OF CALMS - 0
NUMBER OF BAD HOURS - 0

JOINT PERCENTAGE FREQUENCIES OF WIND DIRECTION AND SPEED
FOR THE PERIOD 12:00 AM 1/1/79 TO 11:00 PM 9/30/79

STABILITY CLASS F
STABILITY CALCULATED FROM DIFF. TEMPERATURE #1+2

BRUNSWICK ON-SITE METEOROLOGICAL FACILITY

WIND DIRECTION	CALM	0.75-3.5	3.5-7.5	7.5-12.5	12.5-18.5	18.5-25.0	GREATER THAN 25.0	TOTAL	AVG. WIND SPEED
N	0.0	0.0	0.9003E-01	0.9083E-01	0.0	0.0	0.0	0.1817E+00	0.7945E+01
NNE	0.0	0.4554E-01	0.1617E+00	0.9083E-01	0.0	0.0	0.0	0.3179E+00	0.7560E+01
NE	0.0	0.0	0.2271E+00	0.5450E+00	0.9083E-01	0.9083E-01	0.0	0.9537E+00	0.1027E+02
ENE	0.0	0.0	0.4471E+00	0.4499E+00	0.3633E+00	0.4541E-01	0.0	0.1135E+01	0.1092E+02
E	0.0	0.9083E-01	0.4554E-01	0.1617E+00	0.4554E-01	0.0	0.0	0.3633E+00	0.8551E+01
ESE	0.0	0.0	0.4541E-01	0.4541E-01	0.4541E-01	0.0	0.0	0.1362E+00	0.9370E+01
SE	0.0	0.0	0.9083E-01	0.2271E+00	0.0	0.0	0.0	0.3179E+00	0.7810E+01
SSE	0.0	0.4554E-01	0.1362E+00	0.5450E+00	0.0	0.0	0.0	0.2266E+00	0.8036E+01
S	0.0	0.4541E-01	0.1617E+00	0.3179E+00	0.0	0.0	0.0	0.5450E+00	0.7860E+01
SSW	0.0	0.0	0.3179E+00	0.2272E+00	0.0	0.9083E-01	0.0	0.6812E+00	0.9024E+01
SW	0.0	0.0	0.2271E+00	0.5450E+00	0.2272E+00	0.0	0.0	0.1090E+01	0.1051E+02
WSW	0.0	0.0	0.3633E+00	0.9991E+00	0.2271E+00	0.0	0.0	0.1589E+01	0.9561E+01
W	0.0	0.0	0.4471E+00	0.8629E+00	0.3633E+00	0.0	0.0	0.1499E+01	0.1034E+02
WNW	0.0	0.0	0.1362E+00	0.1617E+00	0.4554E+00	0.2272E+00	0.0	0.1045E+01	0.1490E+02
W	0.0	0.0	0.9083E-01	0.1617E+00	0.3179E+00	0.1362E+00	0.0	0.7266E+00	0.1445E+02
NNW	0.0	0.4541E-01	0.4541E-01	0.4541E-01	0.9083E-01	0.0	0.0	0.2271E+00	0.9746E+01
TOTAL	0.0	0.2272E+00	0.2271E+01	0.5477E+01	0.2271E+01	0.4550E+00	0.0	0.1153E+02	0.9797E+01

NUMBER OF CALMS - 0
NUMBER OF BAD HOURS - 0

WIND PERCENTAGE FREQUENCIES OF WIND DIRECTION AND SPEED
FOR THE PERIOD 12:00 AM 7/17/79 TO 11:00 PM 9/30/79

STABILITY CLASS G
STABILITY CALCULATED FROM DIFF. TEMPERATURE #1+2

BRUNSWICK ON-SITE METEOROLOGICAL FACILITY

UPPER		SPEED CLASS(MPH)						AVG.	
WIND DIRECTION	CALM	0.75-3.5	3.5-7.5	7.5-12.5	12.5-18.5	18.5-25.0	GREATER THAN 25.0	TOTAL	WIND SPEED
N	0.0	0.0	0.4541E-01	0.0	0.0	0.0	0.0	0.9083E-01	0.7580E+01
NNE	0.0	0.0	0.1362E+00	0.0	0.0	0.0	0.0	0.1362E+00	0.1006E+02
NE	0.0	0.0	0.4541E-01	0.9083E-01	0.1362E+00	0.0	0.0	0.2725E+00	0.1088E+02
ENE	0.0	0.0	0.9083E-01	0.9083E-01	0.4541E-01	0.0	0.0	0.2271E+00	0.8458E+01
E	0.0	0.4541E-01	0.4541E-01	0.4541E-01	0.1362E+00	0.0	0.0	0.2725E+00	0.1056E+02
ESE	0.0	0.0	0.4541E-01	0.0	0.0	0.0	0.0	0.4541E-01	0.3530E+01
SE	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
SSE	0.0	0.0	0.9083E-01	0.0	0.0	0.0	0.0	0.9083E-01	0.5600E+01
S	0.0	0.4541E-01	0.0	0.0	0.0	0.0	0.0	0.4541E-01	0.2250E+01
SSW	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
SW	0.0	0.4541E-01	0.9083E-01	0.0	0.0	0.0	0.0	0.1362E+00	0.4653E+01
WSW	0.0	0.0	0.1362E+00	0.3179E+00	0.0	0.0	0.0	0.4541E+00	0.8488E+01
W	0.0	0.0	0.9083E-01	0.4541E-01	0.4541E-01	0.0	0.0	0.2271E+00	0.1108E+02
WNW	0.0	0.0	0.0	0.9083E-01	0.1362E+00	0.4541E-01	0.0	0.2725E+00	0.1362E+02
NW	0.0	0.0	0.0	0.0	0.1817E+00	0.0	0.0	0.1817E+00	0.1612E+02
NNW	0.0	0.0	0.0	0.0	0.0	0.4541E-01	0.0	0.4541E-01	0.1915E+02
TOTAL	0.0	0.1362E+00	0.6012E+00	0.8629E+00	0.6812E+00	0.1362E+00	0.0	0.2490E+01	0.9422E+01

NUMBER OF CALMS - 0
NUMBER OF BAD HOURS - 0

JOINT PERCENTAGE FREQUENCIES OF WIND DIRECTION AND SPEED
 FOR THE PERIOD 12:00 AM 7/ 1/79 TO 11:00 PM 9/30/79

SUMMARY
 STABILITY CALCULATED FROM DIFF. TEMPERATURE #1+2

BRUNSWICK ON-SITE METEOROLOGICAL FACILITY

UPPER WIND DIRECTION	CALM	SPEED CLASS(MPH)						TOTAL	AVG. WIND SPEED
		0.75- 3.5	3.5- 7.5	7.5-12.5	12.5-18.5	18.5-25.0	GREATER THAN 25.0		
N	0.0	0.4541E-01	0.3633E+00	0.1544E+01	0.2271E+01	0.9083E-01	0.0	0.4314E+01	0.1275E+02
NNW	0.0	0.9083E-01	0.5904E+00	0.1317E+01	0.3633E+01	0.1726E+01	0.0	0.7357E+01	0.1515E+02
NE	0.0	0.4541E-01	0.6358E+00	0.1226E+01	0.2225E+01	0.1272E+01	0.0	0.5404E+01	0.1408E+02
ENE	0.0	0.0	0.5904E+00	0.1589E+01	0.2271E+01	0.1862E+01	0.9083E-01	0.6403E+01	0.1487E+02
E	0.0	0.2271E+00	0.4541E+00	0.1635E+01	0.2225E+01	0.7266E+00	0.1362E+00	0.5404E+01	0.1358E+02
ESE	0.0	0.0	0.3633E+00	0.9083E+00	0.1589E+01	0.4541E+00	0.3179E+00	0.3633E+01	0.1520E+02
SE	0.0	0.0	0.4995E+00	0.1771E+01	0.9537E+00	0.9083E-01	0.7720E+00	0.4087E+01	0.1524E+02
SSE	0.0	0.4541E-01	0.4541E+00	0.2543E+01	0.1135E+01	0.3633E+00	0.5450E+00	0.5086E+01	0.1388E+02
S	0.0	0.9083E-01	0.4995E+00	0.3134E+01	0.1680E+01	0.5904E+00	0.7266E+00	0.6721E+01	0.1469E+02
SSW	0.0	0.4541E-01	0.1181E+01	0.3270E+01	0.4042E+01	0.9991E+00	0.1680E+01	0.1122E+02	0.1590E+02
SW	0.0	0.4541E-01	0.9083E+00	0.3224E+01	0.7130E+01	0.4541E+01	0.8174E+00	0.1667E+02	0.1618E+02
WSW	0.0	0.0	0.1544E+01	0.3724E+01	0.2906E+01	0.6812E+00	0.4541E-01	0.8901E+01	0.1205E+02
W	0.0	0.4541E-01	0.9991E+00	0.2906E+01	0.9991E+00	0.1817E+00	0.0	0.5132E+01	0.1035E+02
WNW	0.0	0.0	0.4087E+00	0.1544E+01	0.1817E+01	0.5904E+00	0.0	0.4360E+01	0.1327E+02
NW	0.0	0.0	0.3633E+00	0.6812E+00	0.1181E+01	0.2271E+00	0.4541E-01	0.2498E+01	0.1345E+02
NNW	0.0	0.4541E-01	0.5450E+00	0.1226E+01	0.6812E+00	0.3179E+00	0.0	0.2816E+01	0.1164E+02
TOTAL	0.0	0.7265E+00	0.1050E+02	0.3224E+02	0.3674E+02	0.1471E+02	0.5177E+01	0.1000E+03	0.1430E+02

NUMBER OF CALMS - 0
 NUMBER OF BAD HOURS - 0

JOINT PERCENTAGE FREQUENCIES OF WIND DIRECTION AND SPEED
FOR THE PERIOD 12:00 AM 7/1/79 TO 11:00 PM 9/30/79

STABILITY CLASS A
STABILITY CALCULATED FROM DIFF. TEMPERATURE #1+2

BRUNSWICK IN-SITE METEOROLOGICAL FACILITY

WIND DIRECTION	CALM	0.75-3.5	3.5-7.5	7.5-12.5	12.5-18.5	18.5-25.0	GREATER THAN 25.0	TOTAL	AVG. WIND SPEED
N	0.0	0.0	0.0	0.4541E-01	0.0	0.0	0.0	0.4541E-01	0.9300E+01
NNE	0.0	0.9083E-01	0.9083E-01	0.4541E-01	0.0	0.0	0.0	0.2271E+00	0.5266E+01
NE	0.0	0.4541E-01	0.9083E-01	0.4541E-01	0.0	0.0	0.0	0.1817E+00	0.6460E+01
ENE	0.0	0.0	0.4541E-01	0.4541E-01	0.0	0.0	0.0	0.9083E-01	0.5775E+01
E	0.0	0.0	0.4541E-01	0.0	0.0	0.0	0.0	0.4541E-01	0.6580E+01
ESE	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
SE	0.0	0.0	0.4541E-01	0.0	0.0	0.0	0.0	0.4541E-01	0.7180E+01
SSE	0.0	0.4541E-01	0.9083E-01	0.0	0.0	0.0	0.0	0.1362E+00	0.3953E+01
S	0.0	0.0	0.4541E-01	0.0	0.0	0.0	0.0	0.4541E-01	0.5580E+01
SSW	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
SW	0.0	0.0	0.4541E-01	0.0	0.4541E-01	0.0	0.0	0.9083E-01	0.1001E+02
WSW	0.0	0.1362E+00	0.9083E-01	0.0	0.0	0.0	0.0	0.2271E+00	0.3468E+01
W	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
WNW	0.0	0.4541E-01	0.0	0.0	0.0	0.0	0.0	0.4541E-01	0.3100E+01
NW	0.0	0.9083E-01	0.4541E-01	0.0	0.0	0.0	0.0	0.1362E+00	0.2583E+01
NNW	0.0	0.9083E-01	0.0	0.4541E-01	0.0	0.0	0.0	0.1362E+00	0.4343E+01
TOTAL	0.0	0.5420E+00	0.6358E+00	0.2271E+00	0.4541E-01	0.0	0.0	0.1453E+01	0.5662E+01

NUMBER OF CALMS - 0
NUMBER OF BAD HOURS - 6

JUNIOR PERCENTAGE FREQUENCIES OF WIND DIRECTION AND SPEED
 FOR THE PERIOD 12:00 AM 7/ 1/79 TO 11:00 PM 9/30/79

STABILITY CLASS C
 STABILITY CALCULATED FROM DIFF. TEMPERATURE #1+2

BRUNSWICK (M-SITE) METEOROLOGICAL FACILITY

WIND DIRECTION	CALM	0.75-3.5	3.5-7.5	7.5-12.5	12.5-16.5	16.5-25.0	GREATER THAN 25.0	TOTAL	AVG. WIND SPEED
N	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
NNE	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
NE	0.0	0.0	0.4541E-01	0.9083E-01	0.0	0.0	0.0	0.2271E+00	0.1048E+02
ENE	0.0	0.0	0.0	0.1817E+00	0.0	0.0	0.0	0.3633E+00	0.1247E+02
E	0.0	0.0	0.0	0.1367E+00	0.4541E-01	0.0	0.0	0.1817E+00	0.1166E+02
ESE	0.0	0.0	0.0	0.4087E+00	0.4541E-01	0.0	0.0	0.4541E+00	0.1027E+02
SE	0.0	0.0	0.4541E-01	0.4087E+00	0.4541E-01	0.0	0.0	0.4995E+00	0.9277E+01
SSE	0.0	0.0	0.0	0.2271E+00	0.0	0.0	0.0	0.2271E+00	0.92514E+01
S	0.0	0.0	0.0	0.2271E+00	0.4541E-01	0.0	0.0	0.2725E+00	0.1063E+02
SSW	0.0	0.0	0.4541E-01	0.2725E+00	0.4541E-01	0.2271E+00	0.0	0.5904E+00	0.1454E+02
SW	0.0	0.0	0.0	0.1817E+00	0.8174E+00	0.4541E-01	0.0	0.1045E+01	0.1526E+02
MSW	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
W	0.0	0.4541E-01	0.0	0.0	0.0	0.0	0.0	0.4541E-01	0.2380E+01
WNW	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
NW	0.0	0.0	0.0	0.4541E-01	0.4541E-01	0.0	0.0	0.9083E-01	0.1126E+02
NNW	0.0	0.0	0.4541E-01	0.0	0.0	0.0	0.0	0.4541E-01	0.5880E+01
TOTAL	0.0	0.4541E-01	0.2271E+00	0.2134E+01	0.1367E+01	0.2725E+00	0.0	0.4042E+01	0.1030E+02

NUMBER OF CALMS - 0
 NUMBER OF BAD HOURS - 0

WIND PERCENTAGE FREQUENCIES OF WIND DIRECTION AND SPEED
FOR THE PERIOD 12:00 AM 7/17/79 TO 11:00 PM 9/30/79

STABILITY CLASS D
STABILITY CALCULATED FROM DIFF. TEMPERATURE #1+2
BRUNSWICK ON-SITE METEOROLOGICAL FACILITY

WIND DIRECTION	CALM	0.75-3.9	3.5-7.5	7.5-12.5	12.5-18.5	18.5-25.0	GREATER THAN 25.0	TOTAL	AVG. WIND SPEED
N	0.0	0.1362E+00	0.1090E+01	0.2134E+01	0.0	0.0	0.0	0.3361E+01	0.7689E+01
NNE	0.0	0.4541E-01	0.5504E+00	0.2492E+01	0.9083E-01	0.0	0.0	0.3224E+01	0.9156E+01
NE	0.0	0.4541E-01	0.3179E+00	0.8629E+00	0.9537E+00	0.0	0.0	0.2180E+01	0.1123E+02
ENE	0.0	0.0	0.1817E+00	0.1317E+01	0.7266E+00	0.0	0.0	0.2225E+01	0.1117E+02
E	0.0	0.4241E-01	0.3333E+00	0.1362E+01	0.4087E+00	0.0	0.0	0.2180E+01	0.9597E+01
ESE	0.0	0.0	0.4541E+00	0.9083E+00	0.9083E-01	0.0	0.0	0.1453E+01	0.8584E+01
SE	0.0	0.0	0.5504E+00	0.5904E+00	0.1362E+00	0.0	0.0	0.1272E+01	0.8175E+01
SSE	0.0	0.0	0.5904E+00	0.6812E+00	0.4541E-01	0.0	0.0	0.1317E+01	0.8263E+01
S	0.0	0.0	0.6358E+00	0.1544E+01	0.5904E+00	0.0	0.0	0.2770E+01	0.1023E+02
SSW	0.0	0.4541E-01	0.5817E+00	0.3497E+01	0.1771E+01	0.9991E+00	0.4995E+00	0.7493E+01	0.1362E+02
SW	0.0	0.0	0.6812E+00	0.2589E+01	0.3270E+01	0.3179E+00	0.0	0.6857E+01	0.1255E+02
WSW	0.0	0.1362E+00	0.6358E+00	0.7266E+00	0.9083E-01	0.0	0.0	0.1589E+01	0.7882E+01
W	0.0	0.1362E+00	0.6812E+00	0.4087E+00	0.0	0.0	0.0	0.1226E+01	0.6264E+01
WNW	0.0	0.4541E-01	0.4995E+00	0.8175E+00	0.9083E-01	0.0	0.0	0.1453E+01	0.8565E+01
NW	0.0	0.4541E-01	0.7766E+00	0.4541E+00	0.4541E-01	0.0	0.0	0.1272E+01	0.7430E+01
NNW	0.0	0.9083E-01	0.8629E+00	0.4541E+00	0.0	0.0	0.0	0.1408E+01	0.6404E+01
TOTAL	0.0	0.7720E+00	0.9537E+01	0.2038E+02	0.8117E+01	0.1317E+01	0.4995E+00	0.4128E+02	0.9182E+01

NUMBER OF CALMS - 0
NUMBER OF BAD HOURS - 0

JOINT PERCENTAGE FREQUENCIES OF WIND DIRECTION AND SPEED
FOR THE PERIOD 12:00 AM 7/ 1/79 TO 11:00 PM 9/30/79

STABILITY CLASS E
STABILITY CALCULATED FROM DIFF. TEMPERATURE #1+2

BRUNSWICK ON-SITE METEOROLOGICAL FACILITY

LOWER WIND DIRECTION	CALM	SPEED CLASS (MPH)						TOTAL	AVG. WIND SPEED
		0.75- 3.5	3.5- 7.5	7.5-12.5	12.5-18.5	18.5-25.0	GREATER THAN 25.0		
N	0.0	0.5450E+00	0.1181E+01	0.5450E+00	0.0	0.0	0.0	0.2271E+01	0.5817E+01
NNE	0.0	0.2725E+00	0.1317E+01	0.1726E+01	0.0	0.0	0.0	0.3315E+01	0.7232E+01
NE	0.0	0.1817E+00	0.4541E+00	0.7266E+00	0.0	0.0	0.0	0.1362E+01	0.7450E+01
ENE	0.0	0.9083E-01	0.1181E+01	0.1135E+01	0.1817E+00	0.0	0.0	0.2589E+01	0.7915E+01
E	0.0	0.9083E-01	0.8629E+00	0.9991E+00	0.4541E-01	0.4541E-01	0.0	0.2044E+01	0.7917E+01
ESE	0.0	0.4541E-01	0.5450E+00	0.5450E+00	0.2271E+00	0.9083E-01	0.0	0.1453E+01	0.9840E+01
SE	0.0	0.4541E+00	0.4995E+00	0.1817E+00	0.4541E-01	0.2271E+00	0.9083E-01	0.1499E+01	0.8871E+01
SSE	0.0	0.4541E+00	0.1544E+01	0.4995E+00	0.2725E+00	0.4541E-01	0.1362E+00	0.2952E+01	0.7542E+01
S	0.0	0.4087E+00	0.1226E+01	0.5904E+00	0.4541E+00	0.0	0.2271E+00	0.2906E+01	0.9343E+01
SSW	0.0	0.4541E+00	0.1317E+01	0.1135E+01	0.2271E+00	0.4541E-01	0.4541E-01	0.3224E+01	0.7665E+01
SW	0.0	0.1362E+00	0.1998E+01	0.2589E+01	0.2725E+00	0.4541E-01	0.0	0.5041E+01	0.8126E+01
WSW	0.0	0.3633E+00	0.1862E+01	0.1771E+01	0.9083E-01	0.0	0.0	0.4087E+01	0.7159E+01
W	0.0	0.6358E+00	0.1544E+01	0.1362E+00	0.0	0.0	0.0	0.2316E+01	0.4519E+01
WNW	0.0	0.4541E+00	0.7720E+00	0.9083E-01	0.0	0.0	0.0	0.1317E+01	0.4623E+01
NW	0.0	0.3633E+00	0.3633E+00	0.0	0.4541E-01	0.0	0.0	0.7720E+00	0.4366E+01
NNW	0.0	0.3179E+00	0.5904E+00	0.9083E-01	0.0	0.0	0.0	0.9991E+00	0.4827E+01
TOTAL	0.0	0.5268E+01	0.1726E+02	0.1276E+02	0.1862E+01	0.4995E+00	0.4995E+00	0.3815E+02	0.7076E+01

NUMBER OF CALMS - 0
NUMBER OF BAD HOURS - 0

JOINT PERCENTAGE FREQUENCIES OF WIND DIRECTION AND SPEED
FOR THE PERIOD 12:00 AM 7/1/79 TO 11:00 PM 9/30/79

STABILITY CLASS F
STABILITY CALCULATED FROM DIFF. TEMPERATURE #1+2

BRUNSWICK ON-SITE METEOROLOGICAL FACILITY

WIND DIRECTION	CALM	0.75-3.5	3.5-7.5	7.5-12.5	12.5-18.5	18.5-25.0	GREATER THAN 25.0	TOTAL	AVG. WIND SPEED
N	0.0	0.8629E+00	0.4499E+00	0.0	0.0	0.0	0.0	0.1362E+01	0.3072E+01
NNE	0.0	0.9174E+00	0.4725E+00	0.0	0.0	0.0	0.0	0.1090E+01	0.3021E+01
NE	0.0	0.1817E+00	0.2725E+00	0.0	0.0	0.0	0.0	0.4541E+00	0.3403E+01
ENE	0.0	0.1817E+00	0.9083E-01	0.0	0.0	0.0	0.0	0.2725E+00	0.3230E+01
E	0.0	0.3633E+00	0.0	0.0	0.0	0.0	0.0	0.3633E+00	0.1886E+01
ESE	0.0	0.3179E+00	0.0	0.0	0.0	0.0	0.0	0.3179E+00	0.1873E+01
SE	0.0	0.2271E+00	0.0	0.0	0.0	0.0	0.0	0.2271E+00	0.1522E+01
SSE	0.0	0.1362E+00	0.0	0.0	0.0	0.0	0.0	0.1362E+00	0.1227E+01
S	0.0	0.1817E+00	0.0	0.0	0.4541E-01	0.0	0.0	0.2271E+00	0.3038E+01
SSW	0.0	0.9083E-01	0.0	0.4541E-01	0.0	0.0	0.0	0.1362E+00	0.4920E+01
SW	0.0	0.3633E+00	0.2125E+00	0.0	0.0	0.0	0.0	0.6358E+00	0.3569E+01
WSW	0.0	0.5450E+00	0.8629E+00	0.0	0.0	0.0	0.0	0.1408E+01	0.3723E+01
W	0.4541E-01	0.1272E+01	0.4087E+00	0.0	0.0	0.0	0.0	0.1726E+01	0.2883E+01
WNW	0.0	0.5909E+00	0.7661E+00	0.0	0.0	0.0	0.0	0.1311E+01	0.3642E+01
NW	0.0	0.5450E+00	0.4995E+00	0.0	0.0	0.0	0.0	0.1045E+01	0.3353E+01
NNW	0.0	0.6358E+00	0.1817E+00	0.0	0.0	0.0	0.0	0.8174E+00	0.2936E+01
TOTAL	0.4541E-01	0.7312E+01	0.4406E+01	0.4541E-01	0.4541E-01	0.0	0.0	0.1153E+02	0.3011E+01

NUMBER OF CALMS - 1
NUMBER OF BAD HOURS - 0

JOINT PERCENTAGE FREQUENCIES OF WIND DIRECTION AND SPEED
FOR THE PERIOD 12:00 AM 7/1/79 TO 11:00 PM 9/30/79

STABILITY CLASS G
STABILITY CALCULATED FROM DIFF. TEMPERATURE #142

BRUNSWICK ON-SITE METEOROLOGICAL FACILITY

WIND DIRECTION	CALM	SPEED CLASS(MPH)						TOTAL	MIND SPEED
		0-3.5	3.5-7.5	7.5-12.5	12.5-18.5	18.5-25.0	GREATER THAN 25.0		
N	0.0	0.4722E+00	0.1817E+00	0.0	0.0	0.0	0.0	0.4541E+00	0.3005E+01
NNE	0.0	0.4541E-01	0.0	0.0	0.0	0.0	0.0	0.4541E-01	0.1950E+01
NE	0.0	0.4541E-01	0.0	0.0	0.0	0.0	0.0	0.4541E-01	0.2130E+01
NNE	0.0	0.4541E-01	0.0	0.0	0.0	0.0	0.0	0.4541E-01	0.1000E+01
E	0.0	0.4541E-01	0.0	0.0	0.0	0.0	0.0	0.4541E-01	0.1080E+01
ESE	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
SE	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
SSE	0.0	0.4541E-01	0.0	0.0	0.0	0.0	0.0	0.4541E-01	0.7800E+00
S	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
SSW	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
SW	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
WSW	0.0	0.4541E-01	0.1817E+00	0.0	0.0	0.0	0.0	0.2271E+00	0.3916E+01
W	0.0	0.9083E-01	0.1362E+00	0.0	0.0	0.0	0.0	0.2271E+00	0.3458E+01
WNW	0.0	0.2725E+00	0.4541E-01	0.0	0.0	0.0	0.0	0.3179E+00	0.2161E+01
W	0.0	0.2271E+00	0.1817E+00	0.0	0.0	0.0	0.0	0.4087E+00	0.3316E+01
NNW	0.4541E-01	0.4087E+00	0.1817E+00	0.0	0.0	0.0	0.0	0.6358E+00	0.3301E+01
TOTAL	0.4541E-01	0.1344E+01	0.9083E+00	0.0	0.0	0.0	0.0	0.2249E+01	0.2312E+01

NUMBER OF CALMS - 1
NUMBER OF BAD HOURS - 0

JOINT PERCENTAGE FREQUENCIES OF WIND DIRECTION AND SPEED
FOR THE PERIOD 12:00 AM 7/ 1/79 TO 11:00 PM 9/30/79

SUMMARY
STABILITY CALCULATED FROM DIFF. TEMPERATURE #1+2

BRUNSWICK (W-SITE) METEOROLOGICAL FACILITY

WIND DIRECTION	CALM	0.75-3.5	3.5-7.5	7.5-12.5	12.5-18.5	18.5-25.0	GREATER THAN 25.0	TOTAL	AVG. WIND SPEED
0	0.0	0.1817E+01	0.1992E+01	0.2725E+01	0.0	0.0	0.0	0.7493E+01	0.6008E+01
NE	0.0	0.1272E+01	0.2211E+01	0.4269E+01	0.9083E-01	0.0	0.0	0.7902E+01	0.7366E+01
E	0.0	0.4995E+00	0.1226E+01	0.1680E+01	0.1090E+01	0.0	0.0	0.4496E+01	0.9010E+01
ENE	0.0	0.3179E+00	0.1499E+01	0.2279E+01	0.1090E+01	0.0	0.0	0.5506E+01	0.9190E+01
ESE	0.0	0.5420E+00	0.1222E+01	0.2639E+01	0.4922E+00	0.4541E-01	0.0	0.4929E+01	0.8412E+01
SE	0.0	0.1633E+00	0.9991E+00	0.2044E+01	0.3633E+00	0.9083E-01	0.0	0.3860E+01	0.8791E+01
SSE	0.0	0.4912E+00	0.1135E+01	0.1453E+01	0.2271E+00	0.2271E+00	0.9083E-01	0.3815E+01	0.8264E+01
S	0.0	0.6912E+00	0.2225E+01	0.1408E+01	0.3191E+00	0.4541E-01	0.1362E+00	0.4814E+01	0.7488E+01
SSW	0.0	0.5904E+00	0.1907E+01	0.2407E+01	0.1135E+01	0.0	0.2271E+00	0.6267E+01	0.9561E+01
WSW	0.0	0.5904E+00	0.2044E+01	0.4450E+01	0.2099E+01	0.1272E+01	0.5450E+00	0.1149E+02	0.1190E+02
W	0.0	0.4922E+00	0.2977E+01	0.5232E+01	0.4628E+01	0.4541E+00	0.0	0.1399E+02	0.1090E+02
WNW	0.0	0.1226E+01	0.3633E+01	0.2490E+01	0.1817E+00	0.0	0.0	0.7539E+01	0.6461E+01
NW	0.0	0.2271E+01	0.2770E+01	0.5450E+00	0.0	0.0	0.0	0.5540E+01	0.4347E+01
NNW	0.0	0.1408E+01	0.1049E+01	0.9083E+00	0.9083E-01	0.0	0.0	0.4450E+01	0.5420E+01
N	0.0	0.1272E+01	0.1817E+01	0.4495E+00	0.1362E+00	0.0	0.0	0.3724E+01	0.5116E+01
ENE	0.0	0.1599E+01	0.1064E+01	0.3904E+00	0.0	0.0	0.0	0.4047E+01	0.4766E+01
WIND TOTAL	0.0	0.1599E+02	0.3265E+02	0.3665E+02	0.1199E+02	0.2136E+01	0.9991E+00	0.1008E+03	0.8217E+01

NUMBER OF CALCS - 2
NUMBER OF 3AD HOURS - 6

ENCLOSURE 2

JOINT FREQUENCY OF WIND DIRECTION AND SPEED
FOURTH QUARTER 1979
BRUNSWICK STEAM ELECTRIC PLANT

The attached tables present the frequency of wind direction occurrences by wind speed class as recorded at the on-site meteorological system during the period October 1 through December 31, 1979.

The frequencies are presented as a percent of total occurrences for each stability class as well as a summary for all classes for each sensor elevation. The first eight tables are for the upper sensor elevation (100 meter); the last eight tables are for the lower (10 meter) sensor elevation.

Pertinent information available from the tables is as follows:

1. Stability

Percent Occurrence Pasquill Categories:

<u>A</u>	<u>B</u>	<u>C</u>	<u>D</u>	<u>E</u>	<u>F</u>	<u>G</u>
0.0	0.5	4.7	33.0	28.5	13.5	19.8

2. Wind Speed

	<u>10 Meter</u>	<u>100 Meter</u>
Average Speed (mph)	7.4	14.9
Percent Calm	0.2	0.0
Percent Less than 3.5 mph	20.4	1.7

3. Wind Direction

	<u>10 Meter</u>	<u>100 Meter</u>
Prevailing Direction	N	SW
Percent Occurrence	12.2	10.6

4. Data Recovery

	<u>10 Meter</u>	<u>100 Meter</u>
Percent Good Hours	99.1	99.6

JOINT PERCENTAGE FREQUENCIES OF WIND DIRECTION AND SPEED
FOR THE PERIOD 12:00 AM 10/ 1/79 TO 11:00 PM 12/31/79

STABILITY CLASS A
STABILITY CALCULATED FROM DIFF. TEMPERATURE #1+2

BRUNSWICK ON-SITE METEOROLOGICAL FACILITY

UPPER	WIND DIRECTION	CALM	0.75-3.5	3.5-7.5	7.5-12.5	SPEED CLASS (MPH) 12.5-18.5	18.5-25.0	GREATER THAN 25.0	TOTAL	AVG. WIND SPEED
1	N	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
2	NE	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
3	E	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
4	ESE	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
5	SE	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
6	SSE	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
7	S	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
8	SSW	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
9	SW	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
10	WSW	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
11	W	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
12	WNW	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
13	NW	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
14	NNW	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
15	TOTAL	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

NUMBER OF CALMS - 0
NUMBER OF BAD HOURS - 0

JOINT PERCENTAGE FREQUENCIES OF WIND DIRECTION AND SPEED
FOR THE PERIOD 12:00 AM 10/ 1/79 TO 11:00 PM 12/31/79

STABILITY CLASS B
STABILITY CALCULATED FROM DIFF. TEMPERATURE #1+2

BRUNSWICK ON-SITE METEOROLOGICAL FACILITY

UPPER	MIND	CALM	0.75-3.5	3.5-7.5	7.5-12.5	SPEED CLASS(MPH)	12.5-18.5	18.5-25.0	GREATER THAN 25.0	TOTAL	AVG. MIND SPEED
N	0.0	0.0	0.0	0.0	0.1364E+00	0.0	0.0	0.0	0.0	0.1364E+00	0.9053E+01
NNE	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
NE	0.0	0.0	0.0	0.0	0.4545E-01	0.4545E-01	0.0	0.0	0.0	0.9091E-01	0.1225E+02
NNE	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
E	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
ESE	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
SE	0.0	0.0	0.0	0.4545E-01	0.4545E-01	0.0	0.0	0.0	0.0	0.9091E-01	0.7440E+01
SSE	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
S	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
SSW	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
SW	0.0	0.0	0.0	0.0	0.4545E-01	0.0	0.0	0.0	0.0	0.4545E-01	0.1565E+02
WSW	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
W	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
WNW	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
NW	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
NNW	0.0	0.0	0.0	0.0	0.0	0.0	0.4545E-01	0.4545E-01	0.0	0.9091E-01	0.2254E+02
TOTAL	0.0	0.0	0.4545E-01	0.4545E-01	0.4545E-01	0.0	0.4545E-01	0.4545E-01	0.0	0.4545E+00	0.1339E+02

NUMBER OF CALMS - 0
NUMBER OF BAD HOURS - 0

JOINT PERCENTAGE FREQUENCIES OF WIND DIRECTION AND SPEED
FOR THE PERIOD 12:00 AM 10/ 1/79 TO 11:00 PM 12/31/79STABILITY CLASS C
STABILITY CALCULATED FROM DIFF. TEMPERATURE #1+2

BRUNSWICK ON-SITE METEOROLOGICAL FACILITY

UPPER WIND DIRECTION	SPEED CLASS(MPH)							TOTAL	AVG. WIND SPEED
	CALM	0.75- 3.5	3.5- 7.5	7.5-12.5	12.5-18.5	18.5-25.0	GREATER THAN 25.0		
N	0.0	0.0	0.4545E-01	0.1364E+00	0.1818E+00	0.1364E+00	0.0	0.5000E+00	0.1488E+02
NNE	0.0	0.0	0.1364E-01	0.4545E-01	0.4545E-01	0.0	0.0	0.2273E+00	0.8164E+01
NE	0.0	0.0	0.0	0.4545E-01	0.1364E+00	0.4545E-01	0.0	0.2273E+00	0.1546E+02
ENE	0.0	0.0	0.4545E-01	0.1818E+00	0.0	0.0	0.0	0.2273E+00	0.8418E+01
E	0.0	0.0	0.9091E-01	0.0	0.0	0.0	0.0	0.9091E-01	0.6015E+01
ESE	0.0	0.0	0.4545E-01	0.0	0.0	0.0	0.0	0.4545E-01	0.7480E+01
SE	0.0	0.0	0.0	0.9091E-01	0.0	0.0	0.0	0.9091E-01	0.1050E+02
SSE	0.0	0.0	0.1364E+00	0.4545E-01	0.9091E-01	0.0	0.0	0.2727E+00	0.9045E+01
S	0.0	0.0	0.4545E-01	0.4545E-01	0.1818E+00	0.0	0.0	0.2727E+00	0.1314E+02
SSW	0.0	0.0	0.0	0.9091E-01	0.0	0.4545E-01	0.0	0.1364E+00	0.1299E+02
SW	0.0	0.0	0.0	0.1364E+00	0.5000E+00	0.9091E-01	0.0	0.7273E+00	0.1554E+02
WSW	0.0	0.0	0.4545E-01	0.9091E-01	0.0	0.0	0.0	0.1364E+00	0.9600E+01
W	0.0	0.0	0.9091E-01	0.1364E+00	0.0	0.0	0.0	0.2273E+00	0.8004E+01
WNW	0.0	0.0	0.4545E-01	0.9091E-01	0.4545E-01	0.0	0.0	0.1818E+00	0.9757E+01
NW	0.0	0.0	0.9091E-01	0.9091E-01	0.1364E+00	0.4545E-01	0.0	0.3636E+00	0.1265E+02
NNW	0.0	0.0	0.4545E-01	0.1818E+00	0.3636E+00	0.3142E+00	0.9091E-01	0.1000E+01	0.1673E+02
TOTAL	0.0	0.0	0.1636E+00	0.1409E+01	0.1522E+01	0.6018E+00	0.9091E-01	0.4727E+01	0.1115E+02

NUMBER OF CALMS - 0
NUMBER OF BAD HOURS - 0

JOINT PERCENTAGE FREQUENCIES OF WIND DIRECTION AND SPEED
FOR THE PERIOD 12:00 AM 10/ 1/79 TO 11:00 PM 12/31/79

STABILITY CLASS D
STABILITY CALCULATED FROM DIFF. TEMPERATURE #1+2

BRUNSWICK ON-SITE METEOROLOGICAL FACILITY

UPPLR WIND DIRECTION	CALM	SPEED CLASS(MPH)						TOTAL	AVG. WIND SPEED
		0.75- 3.5	3.5- 7.5	7.5-12.5	12.5-18.5	18.5-25.0	GREATER THAN 25.0		
N	0.0	0.0	0.1818E+00	0.4545E+00	0.2273E+01	0.6364E+00	0.1818E+00	0.3727E+01	0.1584E+02
NNE	0.0	0.0	0.1364E+00	0.9091E+00	0.2182E+01	0.3636E+00	0.4545E-01	0.3636E+01	0.1480E+02
NE	0.0	0.0	0.9091E-01	0.6818E+00	0.1091E+01	0.1273E+01	0.1364E+00	0.3273E+01	0.1699E+02
ENE	0.0	0.0	0.2273E+00	0.7273E+00	0.5000E+00	0.3636E+00	0.0	0.1818E+01	0.1329E+02
E	0.0	0.0	0.1818E+00	0.7727E+00	0.9091E-01	0.0	0.0	0.1045E+01	0.9661E+01
ESE	0.0	0.9091E-01	0.1818E+00	0.3182E+00	0.4545E-01	0.1818E+00	0.0	0.8182E+00	0.1058E+02
SE	0.0	0.0	0.2727E+00	0.9091E-01	0.1364E+00	0.4545E-01	0.0	0.5455E+00	0.1032E+02
SSE	0.0	0.0	0.3182E+00	0.2727E+00	0.5091E+00	0.1364E+00	0.0	0.1136E+01	0.1220E+02
S	0.0	0.9091E-01	0.3636E+00	0.3636E+00	0.2273E+00	0.2273E+00	0.0	0.1273E+01	0.1119E+02
SSW	0.0	0.0	0.2727E+00	0.4545E+00	0.5909E+00	0.1000E+01	0.3182E+00	0.2636E+01	0.1745E+02
SW	0.0	0.0	0.1364E+00	0.8182E+00	0.1364E+01	0.1227E+01	0.3182E+00	0.3864E+01	0.1677E+02
WSW	0.0	0.4545E-01	0.1818E+00	0.2727E+00	0.6364E+00	0.5455E+00	0.1364E+00	0.1818E+01	0.1619E+02
W	0.0	0.4545E-01	0.2727E+00	0.5000E+00	0.5909E+00	0.2273E+00	0.4545E-01	0.1682E+01	0.1261E+02
WNW	0.0	0.4545E-01	0.1818E+00	0.5000E+00	0.3636E+00	0.2727E+00	0.0	0.1364E+01	0.1290E+02
NW	0.0	0.0	0.2727E+00	0.3636E+00	0.6364E+00	0.9091E-01	0.0	0.1364E+01	0.1232E+02
NNW	0.0	0.0	0.2273E+00	0.3636E+00	0.1500E+01	0.7273E+00	0.2273E+00	0.3045E+01	0.1670E+02
TOTAL	0.0	0.3182E+00	0.3500E+01	0.7864E+01	0.1264E+02	0.7318E+01	0.1409E+01	0.3305E+02	0.1374E+02

NUMBER OF CALMS - 0

NUMBER OF BAD HOURS - 0

JOINT PERCENTAGE FREQUENCIES OF WIND DIRECTION AND SPEED
FOR THE PERIOD 12:00 AM 10/ 1/79 TO 11:00 PM 12/31/79STABILITY CLASS E
STABILITY CALCULATED FROM DIFF. TEMPERATURE #1+2

BRUNSWICK ON-SITE METEOROLOGICAL FACILITY

UPPER WIND DIRECTION	CALM	SPEED CLASS (MPH)						TOTAL	AVG. WIND SPEED
		0.75- 3.5	3.5- 7.5	7.5-12.5	12.5-18.5	18.5-25.0	GREATER THAN 25.0		
N	0.0	0.0	0.1364E+00	0.4545E-01	0.1045E+01	0.6818E+00	0.4545E-01	0.1955E+01	0.1730E+02
NNE	0.0	0.0	0.9091E-01	0.4545E-01	0.1227E+01	0.1955E+01	0.4545E-01	0.3364E+01	0.1900E+02
NE	0.0	0.0	0.0	0.1364E+00	0.1273E+01	0.1364E+01	0.0	0.2773E+01	0.1644E+02
ENE	0.0	0.0	0.4545E-01	0.1364E+00	0.5000E+00	0.2727E+00	0.0	0.9545E+00	0.1620E+02
E	0.0	0.0	0.9091E-01	0.3636E+00	0.2727E+00	0.0	0.0	0.7273E+00	0.1161E+02
ESE	0.0	0.0	0.1364E+00	0.1364E+00	0.4545E-01	0.9091E-01	0.0	0.4091E+00	0.1174E+02
SE	0.0	0.4545E-01	0.1364E+00	0.1364E+00	0.9091E-01	0.7273E+00	0.4545E-01	0.1182E+01	0.1792E+02
SSE	0.0	0.9091E-01	0.2727E+00	0.4545E-01	0.9091E-01	0.9545E+00	0.4545E+00	0.1909E+01	0.1997E+02
S	0.0	0.0	0.4545E-01	0.1364E+00	0.2273E+00	0.3636E+00	0.1818E+00	0.9545E+00	0.2055E+02
SSW	0.0	0.4545E-01	0.0	0.1364E+00	0.7727E+00	0.1182E+01	0.1136E+01	0.3273E+01	0.2147E+02
SW	0.0	0.0	0.1364E+00	0.2273E+00	0.1227E+01	0.2045E+01	0.7727E+00	0.4409E+01	0.2000E+02
WSW	0.0	0.0	0.1364E+00	0.6364E+00	0.8636E+00	0.2273E+00	0.2273E+00	0.2091E+01	0.1509E+02
W	0.0	0.0	0.9091E-01	0.4091E+00	0.7273E+00	0.3182E+00	0.0	0.1545E+01	0.1395E+02
WNW	0.0	0.4545E-01	0.9091E-01	0.2727E+00	0.1818E+00	0.2727E+00	0.0	0.8636E+00	0.1464E+02
NW	0.0	0.0	0.1364E+00	0.9091E-01	0.2727E+00	0.1364E+00	0.0	0.6364E+00	0.1362E+02
NNW	0.0	0.0	0.4545E-01	0.1364E+00	0.5455E+00	0.5455E+00	0.4545E-01	0.1318E+01	0.1768E+02
TOTAL	0.0	0.2273E+00	0.1591E+01	0.3091E+01	0.9364E+01	0.1114E+02	0.2955E+01	0.2036E+02	0.1682E+02

NUMBER OF CALMS - 3
NUMBER OF HAD HOURS - 0

JOINT PERCENTAGE FREQUENCIES OF WIND DIRECTION AND SPEED
FOR THE PERIOD 12:00 AM 10/ 1/79 TO 11:00 PM 12/31/79STABILITY CLASS F
STABILITY CALCULATED FROM DIFF. TEMPERATURE #1+2

BRUNSWICK ON-SITE METEOROLOGICAL FACILITY

UPPER WIND DIRECTION	CALM	SPEED CLASS(MPH)						TOTAL	AVG. WIND SPEED
		0.75- 3.5	3.5- 7.5	7.5-12.5	12.5-18.5	18.5-25.0	GREATER THAN 25.0		
N	0.0	0.0	0.0	0.4545E-01	0.3182E+00	0.6182E+00	0.0	0.1182E+01	0.1965E+02
NNE	0.0	0.0	0.0	0.1364E+00	0.4545E+00	0.7727E+00	0.0	0.1364E+01	0.1817E+02
NE	0.0	0.4545E-01	0.4545E-01	0.1818E+00	0.8636E+00	0.3636E+00	0.0	0.1500E+01	0.1612E+02
ENE	0.0	0.0	0.0	0.3636E+00	0.1818E+00	0.0	0.0	0.5455E+00	0.1289E+02
E	0.0	0.0	0.9091E-01	0.5909E+00	0.2727E+00	0.0	0.0	0.9545E+00	0.1182E+02
ESE	0.0	0.0	0.9091E-01	0.4545E-01	0.2273E+00	0.4545E-01	0.0	0.4091E+00	0.1220E+02
SE	0.0	0.0	0.0	0.1364E+00	0.4091E+00	0.9091E-01	0.0	0.6364E+00	0.1503E+02
SSE	0.0	0.0	0.4545E-01	0.3636E+00	0.2273E+00	0.2727E+00	0.0	0.9091E+00	0.1469E+02
S	0.0	0.4545E-01	0.9091E-01	0.2273E+00	0.1364E+00	0.2273E+00	0.4545E-01	0.7727E+00	0.1436E+02
SSW	0.0	0.0	0.4545E-01	0.4545E-01	0.9091E-01	0.4545E-01	0.0	0.2273E+00	0.1370E+02
SW	0.0	0.0	0.4545E-01	0.9091E-01	0.3182E+00	0.2273E+00	0.0	0.6818E+00	0.1622E+02
WSW	0.0	0.0	0.4545E-01	0.3636E+00	0.8182E+00	0.2273E+00	0.0	0.1455E+01	0.1445E+02
W	0.0	0.4545E-01	0.4545E-01	0.1818E+00	0.6364E+00	0.1818E+00	0.9091E-01	0.1182E+01	0.1538E+02
WNW	0.0	0.0	0.4545E-01	0.1818E+00	0.1818E+00	0.1364E+00	0.1364E+00	0.6818E+00	0.1702E+02
NW	0.0	0.0	0.0	0.1818E+00	0.1818E+00	0.4545E-01	0.0	0.4091E+00	0.1313E+02
NNW	0.0	0.0	0.0	0.9091E-01	0.2727E+00	0.1818E+00	0.0	0.5455E+00	0.1617E+02
TOTAL	0.0	0.1364E+00	0.5909E+00	0.3227E+01	0.5591E+01	0.3636E+01	0.2727E+00	0.1345E+02	0.1506E+02

NUMBER OF CALMS - 9
NUMBER OF BAD HOURS - 0

JOINT PERCENTAGE FREQUENCIES OF WIND DIRECTION AND SPEED
FOR THE PERIOD 12:00 AM 10/ 1/79 TO 11:00 PM 12/31/79

STABILITY CLASS G
STABILITY CALCULATED FROM DIFF. TEMPERATURE #1+2

BRUNSWICK ON-SITE METEOROLOGICAL FACILITY

UPPER WIND DIRECTION	CALM	SPEED CLASS(MPH)						TOTAL	AVG. WIND SPEED
		0.75- 3.5	3.5- 7.5	7.5-12.5	12.5-18.5	18.5-25.0	GREATER THAN 25.0		
N	0.0	0.1818E+00	0.3182E+00	0.4091E+00	0.3636E+00	0.1354E+00	0.0	0.1409E+01	0.1079E+02
NNE	0.0	0.4545E-01	0.2273E+00	0.4091E+00	0.7727E+00	0.5000E+00	0.0	0.1955E+01	0.1450E+02
NE	0.0	0.4545E-01	0.1364E+00	0.6818E+00	0.2727E+00	0.0	0.0	0.1136E+01	0.1038E+02
ENE	0.0	0.4545E-01	0.2273E+00	0.1818E+00	0.1364E+00	0.0	0.0	0.5909E+00	0.9122E+01
E	0.0	0.4545E-01	0.3182E+00	0.3636E+00	0.9091E-01	0.0	0.0	0.8182E+00	0.8357E+01
ESE	0.0	0.0	0.2273E+00	0.1818E+00	0.3182E+00	0.0	0.0	0.7273E+00	0.1058E+02
SE	0.0	0.9091E-01	0.1818E+00	0.2727E+00	0.9091E-01	0.0	0.0	0.6364E+00	0.8486E+01
SSE	0.0	0.0	0.1364E+00	0.2273E+00	0.2273E+00	0.0	0.0	0.5909E+00	0.1090E+02
S	0.0	0.9091E-01	0.6364E+00	0.6818E+00	0.2727E+00	0.9091E-01	0.0	0.1773E+01	0.9482E+01
SSW	0.0	0.4545E-01	0.5455E+00	0.1364E+00	0.3182E+00	0.0	0.0	0.1045E+01	0.9490E+01
SW	0.0	0.1364E+00	0.4091E+00	0.1818E+00	0.1364E+00	0.0	0.0	0.8636E+00	0.7388E+01
WSW	0.0	0.0	0.3636E+00	0.5455E+00	0.9091E-01	0.0	0.0	0.1000E+01	0.9134E+01
W	0.0	0.9091E-01	0.8182E+00	0.9091E+00	0.4545E+00	0.4545E-01	0.0	0.2318E+01	0.9347E+01
WNW	0.0	0.4545E-01	0.0	0.7273E+00	0.5000E+00	0.3636E+00	0.0	0.1636E+01	0.1384E+02
NW	0.0	0.9091E-01	0.1818E+00	0.5455E+00	0.4545E+00	0.1364E+00	0.0	0.1409E+01	0.1149E+02
NNW	0.0	0.9091E-01	0.4091E+00	0.6364E+00	0.6364E+00	0.2727E+00	0.0	0.2045E+01	0.1159E+02
TOTAL	0.0	0.1045E+01	0.5136E+01	0.7091E+01	0.5136E+01	0.1545E+01	0.0	0.1995E+02	0.1030E+02

NUMBER OF CALMS - 0
NUMBER OF BAD HOURS - 0

JOINT PERCENTAGE FREQUENCIES OF WIND DIRECTION AND SPEED
FOR THE PERIOD 12:00 AM 10/ 1/79 TO 11:00 PM 12/31/79

SUMMARY
STABILITY CALCULATED FROM DIFF. TEMPERATURE #1+2

BRUNSMICK IN-SITE METEOROLOGICAL FACILITY

WIND DIRECTION	CALM	0.75-3.5	3.5-7.5	7.5-12.5	12.5-18.5	18.5-25.0	GREATER THAN 25.0	TOTAL	AVG. WIND SPEED
N	0.0	0.1818E+00	0.6818E+00	0.1227E+01	0.4182E+01	0.2409E+01	0.2273E+00	0.8909E+01	0.1571E+02
NNE	0.0	0.4545E-01	0.5909E+00	0.1555E+01	0.5682E+01	0.3591E+01	0.9091E-01	0.1055E+02	0.1638E+02
NE	0.0	0.9091E-01	0.2727E+00	0.1773E+01	0.3682E+01	0.3045E+01	0.1364E+00	0.9000E+01	0.1637E+02
ENE	0.0	0.4545E-01	0.5455E+00	0.1591E+01	0.1318E+01	0.6354E+00	0.0	0.4136E+01	0.1305E+02
E	0.0	0.4545E-01	0.7727E+00	0.2091E+01	0.7273E+00	0.0	0.0	0.3636E+01	0.1073E+02
ESE	0.0	0.9091E-01	0.6818E+00	0.6818E+00	0.6364E+00	0.3182E+00	0.0	0.2409E+01	0.1099E+02
SE	0.0	0.1364E+00	0.6364E+00	0.7727E+00	0.7273E+00	0.8636E+00	0.4545E-01	0.3182E+01	0.1364E+02
SSE	0.0	0.9091E-01	0.5091E+00	0.9254E+00	0.1045E+01	0.1364E+01	0.4545E+00	0.4818E+01	0.1591E+02
S	0.0	0.2273E+00	0.1182E+01	0.1455E+01	0.1045E+01	0.9091E+00	0.2273E+00	0.5045E+01	0.1295E+02
SSW	0.0	0.9091E-01	0.8636E+00	0.8636E+00	0.1773E+01	0.2273E+01	0.1455E+01	0.7318E+01	0.1791E+02
SW	0.0	0.1364E+00	0.7273E+00	0.1455E+01	0.3591E+01	0.3591E+01	0.1091E+01	0.1059E+02	0.1723E+02
WSW	0.0	0.4545E-01	0.7727E+00	0.1909E+01	0.2409E+01	0.1000E+01	0.3636E+00	0.6500E+01	0.1422E+02
W	0.0	0.1818E+00	0.1318E+01	0.2136E+01	0.2409E+01	0.7727E+00	0.1364E+00	0.6955E+01	0.1214E+02
WNW	0.0	0.1364E+00	0.4636E+00	0.1773E+01	0.1273E+01	0.1045E+01	0.1364E+00	0.4727E+01	0.1401E+02
NW	0.0	0.9091E-01	0.6818E+00	0.1273E+01	0.1682E+01	0.4545E+00	0.0	0.4182E+01	0.1234E+02
NNW	0.0	0.9091E-01	0.7731E+00	0.1409E+01	0.3318E+01	0.2091E+01	0.4091E+00	0.8045E+01	0.1559E+02
TOTAL	0.0	0.1727E+01	0.1173E+02	0.22291E+02	0.3450E+02	0.2516E+02	0.4773E+01	0.1000E+03	0.1494E+02

NUMBER OF CALMS - 0
NUMBER OF BAD HOURS - 8

JOINT PERCENTAGE FREQUENCIES OF WIND DIRECTION AND SPEED
FOR THE PERIOD 12:00 AM 10/ 1/79 TO 11:00 PM 12/31/79

STABILITY CLASS A
STABILITY CALCULATED FROM DIFF. TEMPERATURE #1+2

BRUNSWICK IN-SITE METEOROLOGICAL FACILITY

WIND DIRECTION	CALM	SPEED CLASS(MPH)					GREATER THAN 25.0	TOTAL	AVG. WIND SPEED
		0.0-3.5	3.5-7.5	7.5-12.5	12.5-18.5	18.5-25.0			
N	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
NNE	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
NE	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
ENE	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
E	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
ESE	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
SE	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
SSE	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
S	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
SSW	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
SW	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
WSW	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
W	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
WNW	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
NW	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
NNW	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
TOTAL	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

NUMBER OF CALMS - 0
NUMBER OF BAD HOURS - 0

JUNE PERCENTAGE FREQUENCIES OF WIND DIRECTION AND SPEED
 FOR THE PERIOD 12:00 AM 10/ 1/79 TO 11:00 PM 12/31/79

STABILITY CLASS B
 STABILITY CALCULATED FROM DIFF. TEMPERATURE #1+2

BRUNSWICK ON-SITE METEOROLOGICAL FACILITY

LOWER WIND DIRECTION	CALM	0.75- 3.5	3.5- 7.5	7.5-12.5	12.5-18.5	18.5-25.0	GREATER THAN 25.0	TOTAL	AVG. WIND SPEED
SPEED CLASS(MPH)									
N	0.0	0.0	0.4568E-01	0.0	0.0	0.0	0.0	0.9137E-01	0.7605E+01
NNE	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
NE	0.0	0.0	0.9137E-01	0.0	0.0	0.0	0.0	0.9137E-01	0.1015E+02
ENE	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
E	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
ESE	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
SE	0.0	0.0	0.4568E-01	0.0	0.0	0.0	0.0	0.4568E-01	0.6130E+01
SSE	0.0	0.0	0.4568E-01	0.0	0.0	0.0	0.0	0.4568E-01	0.6850E+01
S	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
SSW	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
SW	0.0	0.0	0.0	0.4568E-01	0.0	0.0	0.0	0.4568E-01	0.1298E+02
WSW	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
W	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
WNW	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
NW	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
NNW	0.0	0.0	0.4568E-01	0.0	0.9137E-01	0.0	0.0	0.1370E+00	0.1192E+02
TOTAL	0.0	0.0	0.1827E+00	0.1370E+00	0.1370E+00	0.0	0.0	0.4568E+00	0.9273E+01

NUMBER OF CALMS - 0
 NUMBER OF BAD HOURS - 0

JOINT PERCENTAGE FREQUENCIES OF WIND DIRECTION AND SPEED
FOR THE PERIOD 12:00 AM 10/ 1/79 TO 11:00 PM 12/31/79STABILITY CLASS C
STABILITY CALCULATED FROM DIFF. TEMPERATURE #1+2

BRUNSWICK ON-SITE METEOROLOGICAL FACILITY

LOWER WIND DIRECTION	CALM	SPEED CLASS(MPH)						TOTAL	AVG. WIND SPEED
		0.75- 3.5	3.5- 7.5	7.5-12.5	12.5-18.5	18.5-25.0	GREATER THAN 25.0		
N	0.0	0.0	0.9137E-01	0.2284E+00	0.4568E-01	0.0	0.0	0.3655E+00	0.9845E+01
NNE	0.0	0.0	0.4568E-01	0.9137E-01	0.0	0.0	0.0	0.1370E+00	0.7943E+01
NE	0.0	0.0	0.4568E-01	0.1370E+00	0.1370E+00	0.0	0.0	0.3198E+00	0.1042E+02
ENE	0.0	0.0	0.4568E-01	0.9137E-01	0.0	0.0	0.0	0.1370E+00	0.8003E+01
E	0.0	0.0	0.1370E+00	0.0	0.0	0.0	0.0	0.1370E+00	0.6043E+01
ESE	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
SE	0.0	0.0	0.0	0.1827E+00	0.0	0.0	0.0	0.1827E+00	0.8115E+01
SSE	0.0	0.0	0.1827E+00	0.9137E-01	0.0	0.0	0.0	0.2741E+00	0.7138E+01
S	0.0	0.0	0.9137E-01	0.9137E-01	0.9137E-01	0.0	0.0	0.2741E+00	0.9493E+01
SSW	0.0	0.0	0.0	0.4568E-01	0.4568E-01	0.0	0.0	0.9137E-01	0.1242E+02
SW	0.0	0.0	0.4568E-01	0.3655E+00	0.4111E+00	0.0	0.0	0.0223E+00	0.1212E+02
WSW	0.0	0.0	0.0	0.9137E-01	0.0	0.0	0.0	0.9137E-01	0.9925E+01
W	0.0	0.0	0.2284E+00	0.0	0.0	0.0	0.0	0.2284E+00	0.6572E+01
WNW	0.0	0.0	0.1370E+00	0.4568E-01	0.0	0.0	0.0	0.1827E+00	0.7085E+01
NW	0.0	0.0	0.9137E-01	0.2741E+00	0.1827E+00	0.0	0.0	0.5482E+00	0.1079E+02
NNW	0.0	0.0	0.1370E+00	0.4111E+00	1E+00	0.0	0.0	0.9593E+00	0.1157E+02
TOTAL	0.0	0.0	0.1779E+01	0.2147E+01	0.325E+01	0.0	0.0	0.4751E+01	0.9165E+01

NUMBER OF CALMS - 0
NUMBER OF BAD HOURS - 0

JOINT PERCENTAGE FREQUENCIES OF WIND DIRECTION AND SPEED
 FOR THE PERIOD 12:00 AM 10/ 1/79 TO 11:00 PM 12/31/79

STABILITY CLASS D
 STABILITY CALCULATED FROM DIFF. TEMPERATURE #1+2

BRUNSWICK ON-SITE METEOROLOGICAL FACILITY

LOWER WIND DIRECTION	CALM	SPEED CLASS (MPH)						TOTAL	AVG. WIND SPEED	
		0.75- 3.5	3.5- 7.5	7.5-12.5	12.5-18.5	18.5-25.0	GREATER THAN 25.0			
N	0.0	0.4568E-01	0.6396E+00	0.3015E+01	0.5025E+00	0.0	0.0	0.4203E+01	0.9740E+01	
NNE	0.0	0.4568E-01	0.7309E+00	0.2238E+01	0.1827E+00	0.0	0.0	0.3198E+01	0.8794E+01	
NE	0.0	0.4568E-01	0.4508E+00	0.1416E+01	0.1599E+01	0.0	0.0	0.3518E+01	0.1173E+02	
ENE	0.0	0.0	0.4111E+00	0.5939E+00	0.4111E+00	0.0	0.0	0.1416E+01	0.9802E+01	
E	0.0	0.4568E-01	0.6852E+00	0.6226E+00	0.0	0.0	0.0	0.1370E+01	0.7016E+01	
ESE	0.0	0.4568E-01	0.1827E+00	0.3198E+00	0.4568E-01	0.0	0.0	0.5939E+00	0.8294E+01	
SE	0.0	0.0	0.7766E+00	0.4111E+00	0.0	0.0	0.0	0.1188E+01	0.6875E+01	
SSE	0.0	0.0	0.3198E+00	0.3655E+00	0.4568E-01	0.0	0.0	0.7309E+00	0.7526E+01	
S	0.0	0.4568E-01	0.3198E+00	0.5939E+00	0.2284E+00	0.0	0.0	0.1188E+01	0.9369E+01	
SSW	0.0	0.0	0.2741E+00	0.9593E+00	0.1325E+01	0.1370E+00	0.0	0.2695E+01	0.1269E+02	
SW	0.0	0.0	0.4568E+00	0.1279E+01	0.1736E+01	0.3198E+00	0.0	0.3792E+01	0.1258E+02	
WSW	0.0	0.4568E-01	0.3198E+00	0.5939E+00	0.7309E+00	0.1370E+00	0.0	0.1827E+01	0.1204E+02	
W	0.0	0.9137E-01	0.4568E+00	0.7309E+00	0.2741E+00	0.0	0.0	0.1553E+01	0.9211E+01	
WNW	0.0	0.0	0.4111E+00	0.5939E+00	0.2741E+00	0.0	0.0	0.1279E+01	0.8961E+01	
NW	0.0	0.4568E-01	0.6396E+00	0.9593E+00	0.4568E-01	0.0	0.0	0.1690E+01	0.8198E+01	
NNW	0.0	0.4568E-01	0.4111E+00	0.1690E+01	0.5939E+00	0.0	0.0	0.2741E+01	0.1011E+02	
TOTAL	0.0	0.5025E+00	0.7492E+01	0.1640E+02	0.7995E+01	0.5939E+00	0.0	0.3298E+02	0.9559E+01	
NUMBER OF CALMS -		0								
NUMBER OF BAD HOURS -		5								

JOINT PERCENTAGE FREQUENCIES OF WIND DIRECTION AND SPEED
 FOR THE PERIOD 12:00 AM 10/ 1/79 TO 11:00 PM 12/31/79

STABILITY CLASS E
 STABILITY CALCULATED FROM DIFF. TEMPERATURE #1+2

BRUNSWICK ON-SITE METEOROLOGICAL FACILITY

LOWER WIND DIRECTION	CALM	SPEED CLASS(MPH)						TOTAL	AVG. WIND SPEED
		0.75- 3.5	3.5- 7.5	7.5-12.5	12.5-18.5	18.5-25.0	GREATER THAN 25.0		
N	0.0	0.1370E+00	0.1279E+01	0.1005E+01	0.4568E-01	0.0	0.0	0.2467E+01	0.7182E+01
NNE	0.0	0.2284E+00	0.1096E+01	0.1690E+01	0.0	0.0	0.0	0.3015E+01	0.7610E+01
NE	0.0	0.1827E+00	0.6396E+00	0.1051E+01	0.5025E+00	0.0	0.0	0.2376E+01	0.9011E+01
ENE	0.0	0.1827E+00	0.5025E+00	0.4568E-01	0.9137E-01	0.0	0.0	0.8223E+00	0.6127E+01
E	0.0	0.9137E-01	0.5025E+00	0.4568E-01	0.0	0.0	0.0	0.6396E+00	0.5107E+01
ESE	0.0	0.4568E-01	0.2741E+00	0.1827E+00	0.0	0.0	0.0	0.5025E+00	0.5756E+01
SE	0.0	0.1827E+00	0.1827E+00	0.1051E+01	0.0	0.0	0.0	0.1416E+01	0.7691E+01
SSE	0.0	0.9137E-01	0.2284E+00	0.5482E+00	0.2741E+00	0.4568E-01	0.0	0.1188E+01	0.1007E+02
S	0.0	0.9137E-01	0.4568E+00	0.6852E+00	0.1370E+00	0.1370E+00	0.0	0.1508E+01	0.9409E+01
SSW	0.0	0.4568E-01	0.5025E+00	0.1325E+01	0.1142E+01	0.0	0.0	0.3015E+01	0.1099E+02
SW	0.0	0.9137E-01	0.1096E+01	0.1875E+01	0.1051E+01	0.4568E-01	0.0	0.4157E+01	0.9886E+01
WSW	0.0	0.1370E+00	0.1096E+01	0.5482E+00	0.2741E+00	0.0	0.0	0.2056E+01	0.7935E+01
W	0.0	0.1370E+00	0.1188E+01	0.2284E+00	0.0	0.0	0.0	0.1553E+01	0.5979E+01
WNW	0.0	0.9137E-01	0.3655E+00	0.1827E+00	0.0	0.0	0.0	0.6396E+00	0.5989E+01
NW	0.0	0.1370E+00	0.5482E+00	0.9137E-01	0.0	0.0	0.0	0.7766E+00	0.4907E+01
NNW	0.0	0.1370E+00	0.1690E+01	0.5025E+00	0.4568E-01	0.0	0.0	0.2376E+01	0.6427E+01
TOTAL	0.0	0.2010E+01	0.1165E+02	0.1106E+02	0.3563E+01	0.2284E+00	0.0	0.2851E+02	0.7505E+01

NUMBER OF CALMS - 0
 NUMBER OF BAD HOURS - 0

JOINT PERCENTAGE FREQUENCIES OF WIND DIRECTION AND SPEED
FOR THE PERIOD 12:00 AM 10/ 1/79 TO 11:00 PM 12/31/79STABILITY CLASS F
STABILITY CALCULATED FROM DIFF. TEMPERATURE #1+2

BRUNSWICK ON-SITE METEOROLOGICAL FACILITY

LOWER WIND DIRECTION	CALM	SPEED CLASS(MPH)						TOTAL	AVG. WIND SPEED
		0.75- 3.5	3.5- 7.5	7.5-12.5	12.5-18.5	18.5-25.0	GREATER THAN 25.0		
N	0.0	0.2284E+00	0.1553E+01	0.4568E-01	0.0	0.0	0.0	0.1827E+01	0.5155E+01
NNE	0.0	0.3655E+00	0.1005E+01	0.1370E+00	0.0	0.0	0.0	0.1508E+01	0.4856E+01
NE	0.0	0.2741E+00	0.4568E+00	0.0	0.0	0.0	0.0	0.7309E+00	0.3609E+01
ENE	0.0	0.3198E+00	0.4568E+00	0.0	0.0	0.0	0.0	0.7766E+00	0.3652E+01
E	0.0	0.9137E-01	0.3198E+00	0.4568E-01	0.0	0.0	0.0	0.4568E+00	0.4487E+01
ESE	0.0	0.9137E-01	0.2741E+00	0.0	0.0	0.0	0.0	0.3655E+00	0.4464E+01
SE	0.0	0.9137E-01	0.1827E+00	0.0	0.0	0.0	0.0	0.2741E+00	0.4165E+01
SSE	0.0	0.2284E+00	0.2741E+00	0.4568E-01	0.0	0.0	0.0	0.5482E+00	0.4181E+01
S	0.0	0.1370E+00	0.2741E+00	0.4568E-01	0.0	0.0	0.0	0.4568E+00	0.4430E+01
SSW	0.0	0.1370E+00	0.4568E-01	0.4568E-01	0.0	0.0	0.0	0.2284E+00	0.3892E+01
SW	0.0	0.4568E-01	0.5482E+00	0.9137E-01	0.0	0.0	0.0	0.6852E+00	0.6157E+01
WSW	0.0	0.1827E+00	0.1279E+01	0.0	0.0	0.0	0.0	0.1462E+01	0.4776E+01
W	0.0	0.3198E+00	0.9137E+00	0.0	0.0	0.0	0.0	0.1233E+01	0.4515E+01
WNW	0.0	0.3198E+00	0.3198E+00	0.0	0.0	0.0	0.0	0.6396E+00	0.6040E+01
NW	0.0	0.2741E+00	0.5482E+00	0.0	0.0	0.0	0.0	0.8223E+00	0.3819E+01
NNW	0.0	0.2741E+00	0.1188E+01	0.0	0.0	0.0	0.0	0.1462E+01	0.4780E+01
TOTAL	0.0	0.3361E+01	0.9039E+01	0.4568E+00	0.0	0.0	0.0	0.1348E+02	0.4436E+01

NUMBER OF CALMS - 0

NUMBER OF BAD HOURS - 1

JOINT PERCENTAGE FREQUENCIES OF WIND DIRECTION AND SPEED
FOR THE PERIOD 12:00 AM 10/ 1/79 TO 11:00 PM 12/31/79

STABILITY CLASS G
STABILITY CALCULATED FROM DIFF. TEMPERATURE #1+2

BRUNSWICK ON-SITE METEOROLOGICAL FACILITY

DIRECTION	CALM	SPEED CLASS(MPH)					TOTAL	AVG. WIND SPEED
		0-3.5	3.5-7.5	7.5-12.5	12.5-18.5	18.5-25.0		
N	0.4568E-01	0.2056E+01	0.1096E+01	0.9137E-01	0.0	0.0	0.3289E+01	0.3445E+01
NNE	0.0	0.6396E+00	0.2284E+00	0.0	0.0	0.0	0.8680E+00	0.2754E+01
NE	0.0	0.5482E+00	0.0	0.0	0.0	0.0	0.5482E+00	0.2237E+01
ENE	0.0	0.2741E+00	0.0	0.0	0.0	0.0	0.2741E+00	0.1592E+01
E	0.0	0.2741E+00	0.0	0.0	0.0	0.0	0.2741E+00	0.1577E+01
ESE	0.0	0.2741E+00	0.4568E-01	0.0	0.0	0.0	0.3198E+00	0.2041E+01
SE	0.0	0.2741E+00	0.0	0.0	0.0	0.0	0.2741E+00	0.2007E+01
SSE	0.0	0.3198E+00	0.0	0.0	0.0	0.0	0.3198E+00	0.1814E+01
S	0.0	0.4111E+00	0.0	0.0	0.0	0.0	0.4111E+00	0.2173E+01
SSW	0.0	0.1827E+00	0.0	0.0	0.0	0.0	0.1827E+00	0.2125E+01
SW	0.0	0.1370E+00	0.0	0.0	0.0	0.0	0.1370E+00	0.2260E+01
WSW	0.0	0.1051E+01	0.4111E+00	0.0	0.0	0.0	0.1462E+01	0.2885E+01
W	0.0	0.1233E+01	0.6396E+00	0.0	0.0	0.0	0.1873E+01	0.3042E+01
WNW	0.4568E-01	0.1462E+01	0.6396E+00	0.0	0.0	0.0	0.2147E+01	0.2951E+01
NW	0.4568E-01	0.2101E+01	0.9137E+00	0.0	0.0	0.0	0.3061E+01	0.2972E+01
NNW	0.9137E-01	0.3061E+01	0.1233E+01	0.0	0.0	0.0	0.4386E+01	0.3007E+01
TOTAL	0.2294E+00	0.1430E+02	0.5209E+01	0.9137E-01	0.0	0.0	0.1983E+02	0.2430E+01

NUMBER OF CALMS - 5
NUMBER OF BAD HOURS - 5

JOINT PERCENTAGE FREQUENCIES OF WIND DIRECTION AND SPEED
FOR THE PERIOD 12:00 AM 10/ 1/79 TO 11:00 PM 12/31/79

SUMMARY
STABILITY CALCULATED FROM DIFF. TEMPERATURE #1+2

BRUNSWICK ON-SITE METEOROLOGICAL FACILITY

DIRECTION	CALM	SPEED CLASS (MPH)					TOTAL	AVG. WIND SPEED
		0-3.5	3.5-7.5	7.5-12.5	12.5-18.5	18.5-25.0		
N	0.4568E-01	0.2467E+01	0.4705E+01	0.4431E+01	0.5939E+00	0.0	0.1224E+02	0.6849E+01
NNL	0.0	0.1279E+01	0.3106E+01	0.4157E+01	0.1827E+00	0.0	0.8725E+01	0.7089E+01
NE	0.0	0.1051E+01	0.1599E+01	0.2695E+01	0.2238E+01	0.0	0.7563E+01	0.9336E+01
ENE	0.0	0.7766E+00	0.1416E+01	0.7309E+00	0.5025E+00	0.0	0.3426E+01	0.6797E+01
E	0.0	0.5022E+00	0.1645E+01	0.7309E+00	0.0	0.0	0.2818E+01	0.5626E+01
ESE	0.0	0.4568E+00	0.7766E+00	0.5025E+00	0.4568E-01	0.0	0.1782E+01	0.5370E+01
SE	0.0	0.5492E+00	0.1186E+01	0.1645E+01	0.0	0.0	0.3381E+01	0.6659E+01
SSE	0.0	0.6396E+00	0.1051E+01	0.1051E+01	0.3190E+00	0.4568E-01	0.3106E+01	0.7278E+01
S	0.0	0.6852E+00	0.1142E+01	0.1416E+01	0.4568E+00	0.1370E+00	0.3837E+01	0.8035E+01
SSW	0.0	0.3655E+00	0.6223E+00	0.2376E+01	0.2513E+01	0.1370E+00	0.6213E+01	0.1123E+02
SW	0.0	0.2741E+00	0.2147E+01	0.3609E+01	0.3243E+01	0.3655E+00	0.9639E+01	0.1078E+02
WSW	0.0	0.1416E+01	0.3106E+01	0.1233E+01	0.1005E+01	0.1370E+00	0.6898E+01	0.7310E+01
W	0.0	0.1782E+01	0.3426E+01	0.9593E+00	0.2741E+00	0.0	0.6441E+01	0.5645E+01
WNW	0.4568E-01	0.1873E+01	0.1873E+01	0.8223E+00	0.2741E+00	0.0	0.4888E+01	0.5240E+01
NW	0.4568E-01	0.2558E+01	0.2741E+01	0.1325E+01	0.2204E+00	0.0	0.6898E+01	0.5207E+01
NNW	0.9137E-01	0.3518E+01	0.4705E+01	0.2604E+01	0.1142E+01	0.0	0.1206E+02	0.6318E+01
TOTAL	0.2204E+00	0.2419E+02	0.3545E+02	0.3029E+02	0.1302E+02	0.6223E+00	0.1000E+03	0.1405E+01

NUMBER OF CALMS - 5
NUMBER OF BAD HOURS - 19

ENCLOSURE 3

DIFFUSION ANALYSIS
GROUND LEVEL RELEASE
JULY 1 - December 31, 1979
BRUNSWICK STEAM ELECTRIC PLANT

Description of Attachments

The attached tables provide estimates of relative ground-level concentration (X/Q) and deposition (D/Q) for the period July 1 through December 31, 1979, for a ground-level release.

A description of the tables is as follows:

- Table 1 - Undecayed, undepleted X/Q for standard distances.
- Table 2 - 2.26-day decay, undepleted X/Q for standard distances.
- Table 3 - 8.0-day decay, depleted X/Q for standard distances.
- Table 4 - Deposition estimates for standard distances.
- Table 5 - X/Q and D/Q estimates for site boundary locations and special points of interest.

Method of Calculation

The ground-level release calculations represent sector averaged concentrations at the given distances from the center of the reactor buildings. The computer code used (XOQDOQ) was received from the U. S. Nuclear Regulatory Commission (NRC), Hydrology Meteorology Branch. ⁽¹⁾

⁽¹⁾ Program for the Meteorological Evaluation of Routine Effluent Release at Nuclear Power Stations, J. F. Sagendorf and J. T. Goll, August 29, 1976.

Input variables included:

1. Wake correction factor from RG 1.111.
2. Assumed plant grade elevation throughout area (i.e., no terrain).
3. Building height for wake correction = 56.9 meters.
4. Joint wind frequency from the ten-meter level on-site meteorological tower.
5. Sigma Z limited to 1000 meters.
5. Calm winds included with joint frequency and distributed according to the occurrence in the lowest non-calm speed class.

The adjustment factors to account for the straight-line flow model limitations (RG 1.111, Section C.1.c) were not applied. The code was modified to incorporate the revised curves for estimating plume depletion and ground deposition (XOQDOQ - ERRATA, November 8, 1976).

Relative Concentration Estimates

The site boundary distances used for the calculations are as prepared for the June 4, 1976, Appendix I submittal to the NRC. Special point distances were obtained from the December 1978 site survey.

The maximum undepleted, undecayed X/Q value at the site boundary is 3.5E-06 in the SSE sector. Site boundary maximums for previous six-month periods are as follows:

JAN - JUN 1978	2.9E-06	E Sector
JUL - DEC 1978	3.3E-06	SSE Sector
JAN - JUN 1979	2.5E-06	SSE Sector

XUDOUU - BUISWICK GROUND AND MIXED MODE RELEASED 7/17/79-12/31/79

THE JOINT FREQUENCY DISTRIBUTION, I= WIND SPEED CLASS, J= STABILITY CLASS													
DIRECTION = N	NE	E	SE	S	SSW	SW	WSW	W	NW	N	NNW	NNE	NNE
I= 1,J= 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
I= 2,J= 1	0.0	0.05	0.02	0.0	0.0	0.02	0.0	0.0	0.07	0.0	0.02	0.05	0.05
I= 3,J= 1	0.0	0.05	0.02	0.02	0.0	0.02	0.05	0.02	0.05	0.0	0.02	0.02	0.0
I= 4,J= 1	0.02	0.02	0.02	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.02
I= 5,J= 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
I= 6,J= 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
I= 7,J= 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
I= 1,J= 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
I= 2,J= 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
I= 3,J= 2	0.02	0.0	0.0	0.0	0.02	0.0	0.0	0.0	0.0	0.0	0.0	0.02	0.02
I= 4,J= 2	0.02	0.0	0.05	0.0	0.07	0.09	0.14	0.0	0.0	0.0	0.0	0.0	0.0
I= 5,J= 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	0.05
I= 6,J= 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
I= 7,J= 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
I= 1,J= 3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
I= 2,J= 3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
I= 3,J= 3	0.05	0.02	0.07	0.0	0.07	0.0	0.02	0.0	0.09	0.02	0.0	0.05	0.09
I= 4,J= 3	0.11	0.05	0.09	0.14	0.07	0.29	0.30	0.16	0.16	0.27	0.05	0.16	0.29
I= 5,J= 3	0.02	0.0	0.11	0.09	0.02	0.02	0.0	0.07	0.05	0.11	0.0	0.11	0.20
I= 6,J= 3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
I= 7,J= 3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
I= 1,J= 4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
I= 2,J= 4	0.09	0.05	0.05	0.0	0.02	0.0	0.0	0.02	0.0	0.09	0.11	0.02	0.05
I= 3,J= 4	0.07	0.06	0.39	0.0	0.52	0.32	0.66	0.46	0.48	0.57	0.49	0.56	0.64
I= 4,J= 4	2.51	2.37	1.14	0.96	1.06	0.61	0.50	0.52	1.07	2.23	1.94	0.57	1.07
I= 5,J= 4	0.25	0.14	0.57	0.28	0.20	0.07	0.07	0.05	0.41	1.55	2.51	0.41	0.14
I= 6,J= 4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.57	0.32	0.07	0.0	0.0
I= 7,J= 4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.25	0.0	0.0	0.0	0.0
I= 1,J= 5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
I= 2,J= 5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
I= 3,J= 5	0.34	0.25	0.16	0.14	0.09	0.05	0.32	0.27	0.25	0.11	0.25	0.39	0.27
I= 4,J= 5	1.23	1.21	0.55	0.84	0.68	0.41	0.34	0.89	0.84	0.91	1.55	1.48	1.37
I= 5,J= 5	0.77	1.71	0.89	0.59	0.52	0.36	0.61	0.52	0.64	1.23	2.23	1.16	0.18
I= 6,J= 5	0.02	0.0	0.14	0.25	0.02	0.11	0.02	0.27	0.30	0.66	0.18	0.0	0.02
I= 7,J= 5	0.0	0.0	0.0	0.0	0.02	0.05	0.11	0.05	0.07	0.02	0.05	0.0	0.0
I= 1,J= 6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
I= 2,J= 6	0.55	0.59	0.23	0.25	0.23	0.20	0.16	0.18	0.11	0.11	0.20	0.36	0.41
I= 3,J= 6	1.02	0.64	0.36	0.27	0.16	0.14	0.09	0.14	0.02	0.02	0.41	1.07	0.66
I= 4,J= 6	0.02	0.07	0.0	0.0	0.02	0.0	0.0	0.02	0.05	0.05	0.0	0.0	0.0
I= 5,J= 6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
I= 6,J= 6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
I= 7,J= 6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
I= 1,J= 7	0.02	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.02	0.0	0.05
I= 2,J= 7	1.16	0.34	0.36	0.16	0.16	0.14	0.14	0.18	0.20	0.09	0.07	0.55	0.87
I= 3,J= 7	0.64	0.11	0.0	0.0	0.02	0.0	0.0	0.0	0.0	0.0	0.39	0.34	0.55
I= 4,J= 7	0.05	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
I= 5,J= 7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
I= 6,J= 7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
I= 7,J= 7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

TOTAL 9.86 8.31 6.04 4.51 3.74 2.82 3.00 3.76 5.50 0.46 11.82 7.22 6.01 4.67 5.31 8.02
TOTAL HOURS CONSIDERED AVE 4391

MIND ME J AT 11.0 METERS
THE MAX WIND SPEED (METERS/SEC) IN EACH CLASS IS 0.335
THE CONVERSION FACTOR APPLIED TO THE WIND SPEED CLASSES IS 0.497
505 3.354 5.598 8.270 11.176 11.623

DISTANCES AND TERRAIN HEIGHTS IN METERS AS FUNCTIONS OF DIRECTION FROM THE SITE:

DIRECTION =	S	SSW	SW	WSW	W	WNW	NW	NNW	N	NNE	NE	ENE	E	ESE	SE	SSE	
DISTANCE	402.	402.	402.	402.	402.	402.	402.	402.	402.	402.	402.	402.	402.	402.	402.	402.	
ELEVATION	6.	6.	6.	6.	6.	6.	6.	6.	6.	6.	6.	6.	6.	6.	6.	6.	
DISTANCE	1207.	1207.	1207.	1175.	1078.	966.	966.	982.	998.	1014.	1014.	1014.	1014.	1078.	1094.	1078.	1110.
ELEVATION	6.	6.	6.	6.	6.	6.	8.	6.	6.	6.	6.	6.	6.	7.	6.	6.	6.
DISTANCE	1674.	1545.	1432.	1191.	1110.	1030.	1127.	1030.	1030.	1030.	1207.	1078.	1094.	1110.	1094.	1191.	
ELEVATION	6.	6.	6.	6.	6.	6.	8.	6.	6.	6.	6.	6.	6.	7.	6.	6.	6.
DISTANCE	2012.	2012.	1674.	1207.	1207.	1207.	1207.	1207.	1207.	1207.	1465.	1207.	1207.	1207.	1207.	1207.	
ELEVATION	6.	6.	6.	6.	6.	6.	8.	6.	6.	6.	6.	6.	6.	7.	6.	6.	6.
DISTANCE	2382.	2317.	2012.	1609.	1400.	1271.	1207.	1368.	1368.	1465.	2012.	2012.	1513.	2012.	1271.	1271.	
ELEVATION	6.	6.	6.	6.	6.	6.	8.	6.	6.	6.	6.	7.	7.	9.	6.	6.	
DISTANCE	2527.	2816.	2736.	2012.	1738.	1364.	2012.	1561.	1416.	1770.	2816.	2816.	2012.	2816.	1320.	1287.	
ELEVATION	6.	6.	6.	6.	6.	6.	9.	6.	6.	6.	6.	8.	7.	10.	6.	6.	
DISTANCE	2816.	3621.	2816.	2816.	2012.	2012.	2816.	2012.	2012.	2012.	3605.	3621.	2816.	3621.	1513.	2012.	
ELEVATION	6.	6.	6.	6.	6.	6.	10.	7.	6.	6.	6.	8.	8.	10.	6.	6.	
DISTANCE	3621.	4426.	3621.	3621.	2816.	2816.	3621.	2816.	2816.	2237.	3621.	4426.	3621.	4426.	2012.	2816.	
ELEVATION	6.	6.	6.	6.	11.	7.	10.	9.	6.	6.	6.	8.	8.	10.	6.	6.	
DISTANCE	4426.	5230.	4426.	4426.	3621.	3621.	4426.	3621.	3621.	2816.	4426.	5230.	4426.	5230.	2816.	3621.	
ELEVATION	6.	6.	6.	6.	12.	11.	12.	10.	10.	6.	6.	8.	8.	10.	6.	6.	
DISTANCE	5230.	6035.	5230.	5230.	4426.	4426.	5230.	4426.	4426.	3621.	5230.	6035.	5230.	6035.	3621.	4426.	
ELEVATION	6.	6.	6.	6.	12.	13.	12.	11.	10.	7.	9.	6.	8.	10.	6.	6.	

EXIT ONE- GROUND LEVEL RELEASE-- 7/1/79-12/31/79
 NO DECAY, UNDEPLETED

SECTOR	ANNUAL AVERAGE CH1/Q (SEC/METER CUBED)										
	DISTANCE IN MILES										
	0.250	0.500	0.750	1.000	1.500	2.000	2.500	3.000	3.500	4.000	4.500
S	2.089E-05	6.328E-06	3.188E-06	2.063E-06	1.140E-06	7.842E-07	5.878E-07	4.646E-07	3.816E-07	3.209E-07	2.759E-07
SSW	1.171E-05	3.668E-06	1.916E-06	1.270E-06	7.141E-07	4.832E-07	3.571E-07	2.791E-07	2.267E-07	1.894E-07	1.617E-07
SW	7.085E-06	2.234E-06	1.167E-06	7.649E-07	4.252E-07	2.871E-07	2.119E-07	1.655E-07	1.343E-07	1.122E-07	9.576E-08
WSW	5.498E-06	1.737E-06	9.171E-07	6.071E-07	3.404E-07	2.243E-07	1.690E-07	1.317E-07	1.067E-07	8.903E-08	7.588E-08
W	5.009E-06	1.597E-06	8.408E-07	5.540E-07	3.089E-07	2.077E-07	1.528E-07	1.189E-07	9.630E-08	8.025E-08	6.836E-08
WNW	3.830E-06	1.200E-06	6.223E-07	4.099E-07	2.290E-07	1.548E-07	1.144E-07	8.938E-08	7.260E-08	6.066E-08	5.179E-08
NW	4.587E-06	1.400E-06	7.024E-07	5.153E-07	2.857E-07	1.913E-07	1.403E-07	1.090E-07	8.814E-08	7.334E-08	6.239E-08
NNW	5.468E-06	1.723E-06	9.190E-07	6.053E-07	3.377E-07	2.273E-07	1.674E-07	1.305E-07	1.057E-07	8.817E-08	7.515E-08
N	5.889E-06	1.883E-06	1.006E-06	6.605E-07	3.667E-07	2.461E-07	1.809E-07	1.407E-07	1.139E-07	9.486E-08	8.076E-08
NNE	6.170E-06	2.077E-06	1.153E-06	7.514E-07	4.159E-07	2.740E-07	1.987E-07	1.529E-07	1.226E-07	1.013E-07	8.567E-08
NE	8.305E-06	2.743E-06	1.490E-06	9.921E-07	5.526E-07	3.660E-07	2.600E-07	2.051E-07	1.647E-07	1.362E-07	1.153E-07
ENE	1.274E-05	3.895E-06	2.005E-06	1.318E-06	7.378E-07	5.041E-07	3.756E-07	2.954E-07	2.412E-07	2.025E-07	1.736E-07
E	1.628E-05	4.918E-06	2.487E-06	1.634E-06	9.159E-07	6.293E-07	4.709E-07	3.716E-07	3.043E-07	2.560E-07	2.199E-07
ESE	1.373E-05	4.098E-06	2.038E-06	1.316E-06	7.274E-07	5.041E-07	3.799E-07	3.016E-07	2.482E-07	2.097E-07	1.807E-07
SE	1.631E-05	4.846E-06	2.390E-06	1.531E-06	8.400E-07	5.841E-07	4.414E-07	3.512E-07	2.896E-07	2.451E-07	2.115E-07
SSE	2.364E-05	7.003E-06	3.457E-06	2.207E-06	1.207E-06	8.400E-07	6.354E-07	5.059E-07	4.173E-07	3.533E-07	3.051E-07

BEARING	ANNUAL AVERAGE CH1/Q (SEC/METER CUBED)										
	DISTANCE IN MILES										
	5.000	7.500	10.000	15.000	20.000	25.000	30.000	35.000	40.000	45.000	50.000
S	2.411E-07	1.439E-07	1.000E-07	6.013E-08	4.203E-08	3.189E-08	2.547E-08	2.108E-08	1.790E-08	1.550E-08	1.363E-08
SSW	1.404E-07	8.181E-08	5.591E-08	3.284E-08	2.259E-08	1.692E-08	1.338E-08	1.098E-08	9.253E-09	7.962E-09	6.963E-09
SW	8.313E-08	4.840E-08	3.306E-08	1.945E-08	1.339E-08	1.004E-08	7.947E-09	6.526E-09	5.505E-09	4.741E-09	4.148E-09
WSW	6.580E-08	3.813E-08	2.597E-08	1.519E-08	1.041E-08	7.786E-09	6.146E-09	5.036E-09	4.240E-09	3.644E-09	3.184E-09
W	5.924E-08	3.427E-08	2.331E-08	1.361E-08	9.328E-09	6.970E-09	5.500E-09	4.505E-09	3.792E-09	3.259E-09	2.847E-09
WNW	4.498E-08	2.623E-08	1.794E-08	1.056E-08	7.279E-09	5.462E-09	4.325E-09	3.553E-09	2.998E-09	2.583E-09	2.260E-09
NW	5.402E-08	3.114E-08	2.114E-08	1.231E-08	8.420E-09	6.284E-09	4.954E-09	4.054E-09	3.410E-09	2.929E-09	2.557E-09
NNW	6.517E-08	3.778E-08	2.574E-08	1.506E-08	1.034E-08	7.734E-09	6.168E-09	5.007E-09	4.217E-09	3.626E-09	3.169E-09
N	6.997E-08	4.042E-08	2.747E-08	1.602E-08	1.077E-08	8.194E-09	6.463E-09	5.292E-09	4.454E-09	3.826E-09	3.342E-09
NNE	7.375E-08	4.157E-08	2.776E-08	1.580E-08	1.063E-08	7.829E-09	6.106E-09	4.953E-09	4.134E-09	3.526E-09	3.059E-09
NE	9.937E-08	5.623E-08	3.766E-08	2.151E-08	1.452E-08	1.072E-08	8.379E-09	6.807E-09	5.689E-09	4.850E-09	4.219E-09
ENE	1.512E-07	8.930E-08	6.161E-08	3.666E-08	2.543E-08	1.918E-08	1.525E-08	1.257E-08	1.064E-08	9.186E-09	8.058E-09
E	1.920E-07	1.141E-07	7.908E-08	4.734E-08	3.299E-08	2.496E-08	1.990E-08	1.644E-08	1.392E-08	1.205E-08	1.059E-08
ESE	1.583E-07	9.521E-08	6.653E-08	4.028E-08	2.828E-08	2.153E-08	1.724E-08	1.430E-08	1.217E-08	1.055E-08	9.294E-09
SE	1.855E-07	1.121E-07	7.661E-08	4.781E-08	3.364E-08	2.571E-08	2.063E-08	1.714E-08	1.460E-08	1.268E-08	1.118E-08
SSE	2.677E-07	1.620E-07	1.137E-07	6.926E-08	4.884E-08	3.730E-08	2.992E-08	2.489E-08	2.121E-08	1.843E-08	1.626E-08

DIRECTION FROM SITE	CH1/Q (SEC/METER CUBED) FOR EACH SEGMENT									
	SEGMENT BOUNDARIES IN MILES									
	0-1	1-2	2-3	3-4	4-5	5-10	10-20	20-30	30-40	40-50
S	3.386E-06	1.187E-06	5.905E-07	3.820E-07	2.764E-07	1.460E-07	6.495E-08	3.202E-08	2.112E-08	1.552E-08
SSW	2.018E-06	7.349E-07	3.595E-07	2.275E-07	1.621E-07	8.333E-08	3.341E-08	1.701E-08	1.101E-08	7.975E-09
SW	1.225E-06	4.393E-07	2.134E-07	1.348E-07	9.595E-08	4.931E-08	1.979E-08	1.010E-08	6.543E-09	4.748E-09
WSW	9.615E-07	3.203E-07	1.702E-07	1.071E-07	7.044E-08	3.888E-08	1.546E-08	7.831E-09	5.050E-09	3.650E-09
W	8.814E-07	3.184E-07	1.539E-07	9.665E-08	6.851E-08	3.495E-08	1.380E-08	7.011E-09	4.518E-09	3.265E-09
WNW	6.562E-07	2.362E-07	1.152E-07	7.284E-08	5.189E-08	2.671E-08	1.074E-08	5.492E-09	3.562E-09	2.586E-09
NW	6.151E-07	2.946E-07	1.419E-07	8.897E-08	6.254E-08	3.171E-08	1.254E-08	6.321E-09	4.066E-09	2.934E-09
NNW	9.582E-07	3.481E-07	1.686E-07	1.061E-07	7.531E-08	3.852E-08	1.534E-08	7.778E-09	5.021E-09	3.632E-09
N	1.047E-06	3.784E-07	1.822E-07	1.143E-07	8.094E-08	4.123E-08	1.632E-08	8.243E-09	5.307E-09	3.833E-09
NNE	7.61E-06	4.211E-07	2.005E-07	1.232E-07	8.590E-08	4.298E-08	1.616E-08	7.886E-09	4.970E-09	3.61E-09
NE	5.0E-06	5.673E-07	2.683E-07	1.654E-07	1.156E-07	5.756E-08	2.199E-08	1.080E-08	6.930E-09	4.9E-09
ENE	2.126E-06	7.62E-07	3.778E-07	2.419E-07	1.734E-07	9.076E-08	3.721E-08	1.928E-08	1.260E-08	9.199E-09

SE 2.5594E-06 0.190E-07 4.454E-07 2.902E-07 2.11E-07 1.135E-07 4.838E-08 2.580E-08 1.717E-08 1.269E-08
 SSE 3.6891E-06 1.266E-06 6.381E-07 4.182E-07 3.055E-07 1.640E-07 7.006E-08 3.744E-08 2.493E-08 1.845E-08

VENT AND BUILDING PARAMETERS:

RELEASE HEIGHT (METERS) 0.0
 DIAMETER (METERS) 0.0
 EXIT VELOCITY (METERS) 0.0
 REP. WIND HEIGHT (METERS) 10.0
 BUILDING HEIGHT (METERS) 56.9
 BLDG. MIN. CRS. SEC. AREA (SQ. METERS) 2120.0
 HEAT EMISSION RATE (CAL/SEC) 0.0

AT THE RELEASE HEIGHT:
 WIND SPEED (METERS/SEC)

ELEVATED LESS THAN 0.0 AND 0.0
 MIXED BETWEEN 0.0 AND 0.0
 GROUND LEVEL ABOVE 0.0

AT THE MEASURED WIND HEIGHT (11.0 METERS):
 WIND SPEED (METERS/SEC)

VENT RELEASE MODE STABLE CONDITIONS
 ELEVATED LESS THAN 0.0 AND 0.0
 MIXED BETWEEN 0.0 AND 0.0
 GROUND LEVEL ABOVE 0.0

WIND SPEED (METERS/SEC)
 UNSTABLE/NEUTRAL CONDITIONS

LESS THAN 0.0 AND 0.0
 BETWEEN 0.0 AND 0.0
 ABOVE 0.0

1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48	49	50	51	52	53	54	55	56	57
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EXIT ONE - GROUP LEVEL RELEASE-- 1/1/79-12/31/79

2.260 DAY DELAY, UNDEPLETED

ANNUAL AVERAGE CHI/Q (SEC/METER CUBED)

DISTANCE IN MILES

SECTOR	0.250	0.500	0.750	1.000	1.500	2.000	2.500	3.000	3.500	4.000	4.500
S	2.081E-05	6.309E-06	3.174E-06	2.051E-06	1.130E-06	7.752E-07	5.793E-07	4.565E-07	3.732E-07	3.134E-07	2.687E-07
SSW	1.170E-05	3.661E-06	1.911E-06	1.265E-06	7.098E-07	4.793E-07	3.535E-07	2.757E-07	2.235E-07	1.863E-07	1.587E-07
SW	7.078E-06	2.230E-06	1.163E-06	7.619E-07	4.227E-07	2.848E-07	2.098E-07	1.635E-07	1.324E-07	1.103E-07	9.395E-08
WSW	5.495E-06	1.734E-06	9.144E-07	6.047E-07	3.305E-07	2.275E-07	1.673E-07	1.301E-07	1.052E-07	8.759E-08	7.450E-08
W	5.004E-06	1.574E-06	8.303E-07	5.518E-07	3.071E-07	2.060E-07	1.512E-07	1.175E-07	9.491E-08	7.892E-08	6.708E-08
WNW	3.826E-06	1.177E-06	6.264E-07	4.082E-07	2.275E-07	1.535E-07	1.132E-07	8.823E-08	7.150E-08	5.961E-08	5.078E-08
NW	4.582E-06	1.462E-06	7.799E-07	5.121E-07	2.838E-07	1.896E-07	1.386E-07	1.076E-07	8.676E-08	7.203E-08	6.113E-08
NNW	3.462E-06	1.171E-06	6.161E-07	4.028E-07	2.356E-07	1.656E-07	1.288E-07	1.041E-07	8.666E-08	7.370E-08	6.370E-08
N	5.883E-06	1.880E-06	1.003E-06	6.519E-07	3.646E-07	2.442E-07	1.791E-07	1.390E-07	1.123E-07	9.331E-08	7.928E-08
NNE	6.165E-06	2.074E-06	1.140E-06	7.492E-07	4.131E-07	2.724E-07	1.972E-07	1.516E-07	1.213E-07	1.001E-07	8.448E-08
NE	8.294E-06	2.739E-06	1.496E-06	9.895E-07	5.505E-07	3.641E-07	2.642E-07	2.034E-07	1.631E-07	1.348E-07	1.139E-07
ENE	1.273E-05	3.887E-06	1.999E-06	1.312E-06	7.333E-07	4.999E-07	3.716E-07	2.917E-07	2.377E-07	1.991E-07	1.703E-07
E	1.625E-05	4.879E-06	2.473E-06	1.621E-06	9.057E-07	6.198E-07	4.620E-07	3.632E-07	2.963E-07	2.489E-07	2.124E-07
ESE	1.370E-05	4.083E-06	2.027E-06	1.307E-06	7.199E-07	4.971E-07	3.733E-07	2.953E-07	2.421E-07	2.038E-07	1.751E-07
SE	1.628E-05	4.829E-06	2.378E-06	1.521E-06	8.316E-07	5.762E-07	4.346E-07	3.441E-07	2.828E-07	2.384E-07	2.051E-07
SSE	2.355E-05	6.977E-06	3.438E-06	2.191E-06	1.194E-06	8.279E-07	6.239E-07	4.949E-07	4.067E-07	3.430E-07	2.951E-07

ANNUAL AVERAGE CHI/Q (SEC/METER CUBED)

DISTANCE IN MILES

BEARING	5.000	7.500	10.000	15.000	20.000	25.000	30.000	35.000	40.000	45.000	50.000
S	2.341E-07	1.376E-07	9.417E-08	5.495E-08	3.729E-08	2.749E-08	2.134E-08	1.717E-08	1.419E-08	1.196E-08	1.024E-08
SSW	1.375E-07	7.923E-08	5.355E-08	3.076E-08	2.069E-08	1.515E-08	1.171E-08	9.398E-09	7.746E-09	6.517E-09	5.573E-09
SW	8.138E-08	4.680E-08	3.167E-08	1.819E-08	1.224E-08	8.967E-09	6.933E-09	5.562E-09	4.584E-09	3.856E-09	3.297E-09
WSW	6.446E-08	3.695E-08	2.489E-08	1.424E-08	9.550E-09	6.962E-09	5.390E-09	4.318E-09	3.555E-09	2.989E-09	2.553E-09
W	5.801E-08	3.318E-08	2.232E-08	1.274E-08	8.534E-09	6.232E-09	4.806E-09	3.847E-09	3.164E-09	2.658E-09	2.269E-09
WNW	4.400E-08	2.536E-08	1.715E-08	9.860E-09	6.637E-09	4.864E-09	3.761E-09	3.018E-09	2.487E-09	2.092E-09	1.788E-09
NW	5.281E-08	3.008E-08	2.017E-08	1.147E-08	7.659E-09	5.580E-09	4.293E-09	3.429E-09	2.816E-09	2.361E-09	2.012E-09
NNW	6.376E-08	3.654E-08	2.461E-08	1.407E-08	9.438E-09	6.898E-09	5.322E-09	4.262E-09	3.507E-09	2.946E-09	2.515E-09
N	6.853E-08	3.916E-08	2.632E-08	1.501E-08	1.005E-08	7.341E-09	5.661E-09	4.532E-09	3.728E-09	3.132E-09	2.674E-09
NNE	7.261E-08	4.050E-08	2.686E-08	1.503E-08	9.942E-09	7.198E-09	5.517E-09	4.377E-09	3.606E-09	3.023E-09	2.578E-09
NE	9.802E-08	5.506E-08	3.661E-08	2.060E-08	1.376E-08	9.766E-09	7.671E-09	6.138E-09	5.053E-09	4.251E-09	3.637E-09
ENE	1.480E-07	8.644E-08	5.698E-08	3.432E-08	2.328E-08	1.717E-08	1.335E-08	1.076E-08	8.904E-09	7.518E-09	6.449E-09
E	1.347E-07	8.077E-08	5.325E-08	3.227E-08	2.843E-08	2.079E-08	1.603E-08	1.282E-08	1.054E-08	8.839E-09	7.537E-09
ESE	1.528E-07	9.026E-08	6.196E-08	3.623E-08	2.459E-08	1.811E-08	1.404E-08	1.128E-08	9.308E-09	7.832E-09	6.695E-09
SE	1.793E-07	1.065E-07	7.340E-08	4.317E-08	2.943E-08	2.175E-08	1.692E-08	1.363E-08	1.126E-08	9.497E-09	8.132E-09
SSE	2.579E-07	1.533E-07	1.056E-07	6.204E-08	4.225E-08	3.119E-08	2.423E-08	1.950E-08	1.611E-08	1.357E-08	1.161E-08

CHI/Q (SEC/METER CUBED) FOR EACH SEGMENT

SEGMENT BOUNDARIES IN MILES

DIRECTION FROM SITE	0-1	1-2	2-3	3-4	4-5	5-10	10-20	20-30	30-40	40-50
S	3.374E-06	1.177E-06	5.024E-07	3.742E-07	2.691E-07	1.397E-07	5.582E-08	2.764E-08	1.723E-08	1.197E-08
SSW	2.012E-06	7.506E-07	3.557E-07	2.242E-07	1.590E-07	8.077E-08	3.135E-08	1.525E-08	9.430E-09	6.531E-09
SW	1.222E-06	4.368E-07	2.112E-07	1.329E-07	9.415E-08	4.778E-08	1.854E-08	9.025E-09	5.581E-09	3.865E-09
WSW	9.589E-07	3.483E-07	1.985E-07	1.056E-07	7.466E-08	3.771E-08	1.452E-08	7.030E-09	4.334E-09	2.995E-09
W	8.789E-07	3.166E-07	1.923E-07	9.527E-08	6.723E-08	3.387E-08	1.300E-08	6.275E-09	3.861E-09	2.664E-09
WNW	6.542E-07	2.348E-07	1.197E-07	7.175E-08	5.088E-08	2.586E-08	1.105E-08	4.896E-09	3.028E-09	2.096E-09
NW	8.120E-07	2.927E-07	1.354E-07	8.710E-08	6.128E-08	3.073E-08	1.171E-08	5.619E-09	3.442E-09	2.366E-09
NNW	9.554E-07	3.460E-07	1.668E-07	1.045E-07	7.386E-08	3.729E-08	1.436E-08	6.945E-09	4.277E-09	2.953E-09
N	1.044E-06	3.703E-07	1.804E-07	1.127E-07	7.946E-08	3.998E-08	1.532E-08	7.392E-09	4.548E-09	3.139E-09
NNE	1.174E-06	4.253E-07	1.990E-07	1.219E-07	8.471E-08	4.161E-08	1.540E-08	7.257E-09	4.416E-09	3.11E-09
NE	1.547E-06	5.652E-07	2.665E-07	1.638E-07	1.142E-07	5.690E-08	2.109E-08	1.004E-08	6.163E-09	4.1E-09
ENE	2.113E-06	7.582E-07	3.734E-07	2.384E-07	1.706E-07	8.193E-08	3.489E-08	1.727E-08	1.079E-08	7.533E-09

1	SE	2.542E-06	8.712E-07	4.360E-07	2.834E-07	2.054E-07	1.000E-07	4.378E-08	2.187E-08	1.367E-09	9.519E-09
2	SSE	3.670E-06	1.253E-06	6.260E-07	4.676E-07	2.955E-07	1.553E-07	6.292E-08	3.136E-08	1.956E-09	1.360E-08

VENT AND BUILDING PARAMETERS:

1	RELEASE HEIGHT (METERS)	0.0	REP. WIND HEIGHT (METERS)	10.0
2	DIAMETER (METERS)	0.0	BUILDING HEIGHT (METERS)	56.9
3	EXIT VELOCITY (METERS)	0.0	BLDG. MIN. CRS. SEC. AREA (SQ. METERS)	2120.0
4			HEAT EMISSION RATE (CAL/SEC)	0.0

AT THE RELEASE HEIGHT:

1	VENT RELEASE MODE	WIND SPEED (METERS/SEC)	AT THE MEASURED WIND HEIGHT (11.0 METERS):				
2			VENT RELEASE MODE	WIND SPEED (METERS/SEC)	STABLE CONDITIONS	WIND SPEED (METERS/SEC)	UNSTABLE/NEUTRAL CONDITIONS
3	ELEVATED	LESS THAN 0.0	ELEVATED		LESS THAN 0.0		LESS THAN 0.0
4	MIXED	BETWEEN 0.0	MIXED		BETWEEN 0.0		BETWEEN 0.0
5	GROUND LEVEL	ABOVE 0.0	GROUND LEVEL		ABOVE 0.0		ABOVE 0.0

12
11
10
9
8
7
6
5
4
3
2
1
0
-1
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-3
-4
-5
-6
-7
-8
-9
-10
-11
-12

EXIT ONE - GROUND LEVEL RELEASE -- 7/1/79-12/31/79

8.000 DAY DELAY, DEPLETED

ANNUAL AVERAGE CHI/Q (SEC/METER CUBED)		DISTANCE IN MILES									
SECTOR	0.250	0.500	0.750	1.000	1.500	2.000	2.500	3.000	3.500	4.000	4.500
S	1.972E-05	5.774E-06	2.037E-06	1.803E-06	9.656E-07	6.472E-07	4.711E-07	3.672E-07	2.955E-07	2.447E-07	2.070E-07
SSW	1.108E-05	3.348E-06	1.706E-06	1.110E-06	6.054E-07	3.992E-07	2.685E-07	2.209E-07	1.762E-07	1.447E-07	1.216E-07
SW	6.704E-06	2.039E-06	1.039E-06	6.688E-07	3.605E-07	2.372E-07	1.712E-07	1.310E-07	1.044E-07	8.572E-08	7.201E-08
WSW	5.202E-06	1.586E-06	8.166E-07	5.308E-07	2.887E-07	1.895E-07	1.365E-07	1.043E-07	8.296E-08	6.807E-08	5.708E-08
W	4.739E-06	1.458E-06	7.486E-07	4.844E-07	2.619E-07	1.716E-07	1.234E-07	9.414E-08	7.484E-08	6.131E-08	5.141E-08
WNW	3.624E-06	1.095E-06	5.541E-07	3.584E-07	1.941E-07	1.279E-07	8.231E-08	7.073E-08	5.640E-08	4.633E-08	3.894E-08
NW	4.340E-06	1.338E-06	6.966E-07	4.477E-07	2.422E-07	1.580E-07	1.133E-07	8.628E-08	6.847E-08	5.601E-08	4.690E-08
NNW	5.173E-06	1.572E-06	8.182E-07	5.293E-07	2.863E-07	1.878E-07	1.352E-07	1.033E-07	8.215E-08	6.735E-08	5.651E-08
N	5.571E-06	1.719E-06	8.957E-07	5.775E-07	3.109E-07	2.034E-07	1.461E-07	1.114E-07	8.850E-08	7.248E-08	6.074E-08
NNE	5.838E-06	1.876E-06	1.019E-06	6.572E-07	3.520E-07	2.265E-07	1.606E-07	1.212E-07	9.540E-08	7.752E-08	6.452E-08
NE	7.858E-06	2.504E-06	1.335E-06	8.678E-07	4.688E-07	3.026E-07	2.151E-07	1.625E-07	1.282E-07	1.043E-07	8.689E-08
ENE	1.205E-05	3.555E-06	1.785E-06	1.152E-06	6.255E-07	4.164E-07	3.033E-07	2.338E-07	1.874E-07	1.547E-07	1.305E-07
E	1.540E-05	4.406E-06	2.213E-06	1.427E-06	7.754E-07	5.188E-07	3.794E-07	2.933E-07	2.356E-07	1.948E-07	1.640E-07
ESE	1.297E-05	3.738E-06	1.813E-06	1.150E-06	6.159E-07	4.158E-07	3.062E-07	2.381E-07	1.923E-07	1.596E-07	1.354E-07
SE	1.543E-05	4.421E-06	2.127E-06	1.338E-06	7.113E-07	4.818E-07	3.559E-07	2.774E-07	2.244E-07	1.867E-07	1.585E-07
SSE	2.232E-05	6.389E-06	3.075E-06	1.928E-06	1.022E-06	6.927E-07	5.120E-07	3.993E-07	3.232E-07	2.689E-07	2.285E-07

ANNUAL AVERAGE CHI/Q (SEC/METER CUBED)		DISTANCE IN MILES									
BEARING	5.000	7.500	10.000	15.000	20.000	25.000	30.000	35.000	40.000	45.000	50.000
S	1.782E-07	1.001E-07	6.603E-08	4.642E-08	2.369E-08	1.688E-08	1.274E-08	1.000E-08	8.084E-09	6.683E-09	5.623E-09
SSW	1.041E-07	5.715E-08	3.711E-08	2.005E-08	1.286E-08	9.073E-09	6.794E-09	5.302E-09	4.264E-09	3.510E-09	2.943E-09
SW	6.160E-08	3.381E-08	2.195E-08	1.87E-08	7.622E-09	5.380E-09	4.031E-09	3.148E-09	2.533E-09	2.086E-09	1.750E-09
WSW	4.876E-08	2.664E-08	1.724E-08	9.271E-09	5.934E-09	4.177E-09	3.122E-09	2.433E-09	1.955E-09	1.607E-09	1.346E-09
W	4.390E-08	2.394E-08	1.547E-08	8.307E-09	5.312E-09	3.736E-09	2.791E-09	2.174E-09	1.746E-09	1.435E-09	1.202E-09
WNW	3.332E-08	1.832E-08	1.190E-08	6.441E-09	4.141E-09	2.924E-09	2.192E-09	1.712E-09	1.378E-09	1.135E-09	9.523E-10
NW	4.001E-08	2.174E-08	1.401E-08	7.501E-09	4.787E-09	3.361E-09	2.508E-09	1.951E-09	1.566E-09	1.286E-09	1.076E-09
NNW	4.828E-08	2.638E-08	1.707E-08	9.187E-09	5.883E-09	4.142E-09	3.097E-09	2.414E-09	1.940E-09	1.595E-09	1.336E-09
N	5.185E-08	2.824E-08	1.823E-08	9.781E-09	6.250E-09	4.394E-09	3.282E-09	2.556E-09	2.052E-09	1.687E-09	1.412E-09
NNE	5.473E-08	2.911E-08	1.846E-08	9.635E-09	6.096E-09	4.229E-09	3.128E-09	2.416E-09	1.927E-09	1.575E-09	1.312E-09
NE	7.379E-08	3.941E-08	2.510E-08	1.321E-08	8.341E-09	5.811E-09	4.309E-09	3.336E-09	2.666E-09	2.183E-09	1.821E-09
ENE	1.121E-07	6.238E-08	4.088E-08	2.237E-08	1.448E-08	1.029E-08	7.744E-09	6.071E-09	4.903E-09	4.050E-09	3.406E-09
E	1.415E-07	7.911E-08	5.195E-08	2.846E-08	1.842E-08	1.306E-08	9.814E-09	7.676E-09	6.184E-09	5.095E-09	4.273E-09
ESE	1.169E-07	6.609E-08	4.378E-08	2.428E-08	1.584E-08	1.131E-08	8.544E-09	6.714E-09	5.430E-09	4.490E-09	3.778E-09
SE	1.369E-07	7.786E-08	5.177E-08	2.886E-08	1.890E-08	1.353E-08	1.025E-08	8.070E-09	6.539E-09	5.416E-09	4.565E-09
SSE	1.974E-07	1.124E-07	7.476E-08	4.169E-08	2.731E-08	1.955E-08	1.480E-08	1.165E-08	9.449E-09	7.816E-09	6.584E-09

CHI/Q (SEC/METER CUBED) FOR EACH SEGMENT		SEGMENT BOUNDARIES IN MILES								
DIRECTION FROM SITE	0-1	1-2	2-3	3-4	4-5	5-10	10-20	20-30	30-40	40-50
S	3.030E-06	1.010E-06	4.775E-07	2.966E-07	2.075E-07	1.023E-07	3.734E-08	1.704E-08	1.005E-08	6.706E-09
SSW	1.806E-06	6.259E-07	2.910E-07	1.770E-07	1.220E-07	5.867E-08	2.065E-08	9.172E-09	5.333E-09	3.524E-09
SW	1.097E-06	3.742E-07	1.727E-07	1.049E-07	7.222E-08	3.471E-08	1.222E-08	5.438E-09	3.166E-09	2.094E-09
WSW	8.604E-07	2.984E-07	1.377E-07	8.336E-08	5.724E-08	2.738E-08	9.559E-09	4.223E-09	2.548E-09	1.614E-09
W	7.888E-07	2.712E-07	1.245E-07	7.520E-08	5.156E-08	2.461E-08	8.568E-09	3.778E-09	2.187E-09	1.441E-09
WNW	5.872E-07	2.012E-07	9.318E-08	5.666E-08	3.905E-08	1.890E-08	6.632E-09	2.956E-09	1.722E-09	1.139E-09
NW	7.293E-07	2.509E-07	1.144E-07	6.881E-08	4.705E-08	2.237E-08	7.742E-09	3.400E-09	1.963E-09	1.291E-09
NNW	8.574E-07	2.965E-07	1.364E-07	8.254E-08	5.667E-08	2.711E-08	9.472E-09	4.189E-09	2.429E-09	1.601E-09
N	9.372E-07	3.224E-07	1.475E-07	6.894E-08	6.093E-08	2.904E-08	1.009E-08	4.444E-09	2.572E-09	1.693E-09
NNE	1.053E-06	3.640E-07	1.624E-07	9.595E-08	6.475E-08	3.008E-08	1.094E-08	4.285E-09	2.433E-09	1.642E-09
NE	1.387E-06	4.836E-07	2.174E-07	1.289E-07	8.711E-08	4.669E-08	1.364E-08	5.885E-09	3.359E-09	2.12E-09
ENE	1.097E-06	6.496E-07	3.057E-07	1.982E-07	1.308E-07	6.386E-08	2.298E-08	1.039E-08	6.204E-09	4.064E-09

1	SE	2.686E-06	7.465E-07	3.560E-07	4.252E-07	1.589E-07	7.940E-08	2.953E-08	1.365E-08	8.109E-09	5.434E-09
2	SSE	3.302E-06	1.077E-06	5.151E-07	3.243E-07	2.290E-07	1.146E-07	4.265E-08	1.972E-08	1.171E-08	7.041E-09

VENT AND BUILDING PARAMETERS:

1	RELEASE HEIGHT (METERS)	0.0	REP. WIND HEIGHT (METERS)	10.0
2	DIAMETER (METERS)	0.0	BUILDING HEIGHT (METERS)	56.9
3	EXIT VELOCITY (METERS)	0.0	BLDG. MIN. CRS. SEC. AREA (SQ. METERS)	2120.0
4			HEAT EMISSION RATE (CAL/SEC)	0.0

5	AT THE RELEASE HEIGHT:	WIND SPEED (METERS/SEC)	AT THE MEASURED WIND HEIGHT (11.0 METERS):
6	VENT RELEASE MODE		VENT RELEASE MODE
7	ELEVATED	LESS THAN 0.0	STABLE CONDITIONS
8	MIXED	BETWEEN 0.0 AND 0.0	ELEVATED
9	GROUND LEVEL	ABOVE 0.0	MIXED
10			GROUND LEVEL
11			ABOVE 0.0
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11	WIND SPEED (METERS/SEC)	UNSTABLE/NEUTRAL CONDITIONS
12		LESS THAN 0.0
13		BETWEEN 0.0 AND 0.0
14		ABOVE 0.0

EXIT ONE - GROUND LEVEL RELEASE - 7/1/79-12/31/79

***** RELATIVE DEPOSITION PER UNIT AREA (M**2) AT FIXED POINTS BY DOWNWIND SECTORS *****

DIRECTION FROM SITE	DISTANCES IN MILES										
	0.25	0.50	0.75	1.00	1.50	2.00	2.50	3.00	3.50	4.00	4.50
S	5.710E-08	1.931E-08	9.513E-09	6.087E-09	3.035E-09	1.841E-09	1.244E-09	9.018E-10	6.857E-10	5.402E-10	4.373E-10
SSW	4.813E-08	1.628E-08	8.357E-09	5.131E-09	2.558E-09	1.552E-09	1.049E-09	7.601E-10	5.780E-10	4.554E-10	3.686E-10
SW	3.494E-08	1.192E-08	6.067E-09	3.725E-09	1.857E-09	1.126E-09	7.616E-10	5.519E-10	4.196E-10	3.306E-10	2.676E-10
WSW	2.611E-08	8.529E-09	4.533E-09	2.784E-09	1.388E-09	8.416E-10	5.690E-10	4.124E-10	3.135E-10	2.470E-10	2.000E-10
W	2.281E-08	7.714E-09	3.961E-09	2.432E-09	1.212E-09	7.354E-10	4.972E-10	3.603E-10	2.740E-10	2.158E-10	1.747E-10
WNW	1.635E-08	5.529E-09	2.839E-09	1.743E-09	8.691E-10	5.271E-10	3.564E-10	2.582E-10	1.964E-10	1.547E-10	1.252E-10
NW	2.083E-08	7.045E-09	3.617E-09	2.221E-09	1.107E-09	6.716E-10	4.541E-10	3.290E-10	2.502E-10	1.971E-10	1.596E-10
NNW	2.294E-08	7.759E-09	3.984E-09	2.446E-09	1.220E-09	7.395E-10	5.001E-10	3.624E-10	2.755E-10	2.171E-10	1.757E-10
N	2.927E-08	9.899E-09	5.083E-09	3.121E-09	1.556E-09	9.437E-10	6.380E-10	4.623E-10	3.510E-10	2.770E-10	2.242E-10
NNE	5.129E-08	1.735E-08	8.906E-09	5.469E-09	2.726E-09	1.654E-09	1.116E-09	8.101E-10	6.160E-10	4.853E-10	3.929E-10
NE	6.844E-08	2.314E-08	1.188E-08	7.296E-09	3.637E-09	2.206E-09	1.492E-09	1.081E-09	8.219E-10	6.475E-10	5.242E-10
ENE	4.180E-08	1.414E-08	7.258E-09	4.456E-09	2.222E-09	1.347E-09	9.111E-10	6.602E-10	5.020E-10	3.955E-10	3.202E-10
E	3.481E-08	1.177E-08	6.044E-09	3.711E-09	1.850E-09	1.122E-09	7.587E-10	5.498E-10	4.181E-10	3.294E-10	2.666E-10
ESE	2.703E-08	9.141E-09	4.693E-09	2.802E-09	1.437E-09	8.714E-10	5.892E-10	4.269E-10	3.246E-10	2.558E-10	2.070E-10
SE	3.672E-08	1.037E-08	5.334E-09	3.276E-09	1.633E-09	9.904E-10	6.696E-10	4.852E-10	3.690E-10	2.907E-10	2.353E-10
SSE	4.642E-08	1.570E-08	8.059E-09	4.949E-09	2.467E-09	1.496E-09	1.012E-09	7.331E-10	5.574E-10	4.391E-10	3.555E-10

DIRECTION FROM SITE	DISTANCES IN MILES										
	5.00	7.50	10.00	15.00	20.00	25.00	30.00	35.00	40.00	50.00	
S	3.618E-10	1.773E-10	1.112E-10	5.622E-11	3.403E-11	2.282E-11	1.635E-11	1.228E-11	9.545E-12	7.624E-12	6.223E-12
SSW	3.049E-10	1.494E-10	9.376E-11	4.739E-11	2.868E-11	1.923E-11	1.378E-11	1.035E-11	8.046E-12	6.427E-12	5.246E-12
SW	2.214E-10	1.085E-10	6.808E-11	3.441E-11	2.083E-11	1.396E-11	1.001E-11	7.513E-12	5.842E-12	4.666E-12	3.809E-12
WSW	1.654E-10	8.106E-11	5.086E-11	2.571E-11	1.556E-11	1.043E-11	7.476E-12	5.613E-12	4.365E-12	3.486E-12	2.846E-12
W	1.445E-10	7.063E-11	4.444E-11	2.246E-11	1.360E-11	9.116E-12	6.532E-12	4.905E-12	3.814E-12	3.046E-12	2.486E-12
WNW	1.036E-10	5.077E-11	3.185E-11	1.610E-11	9.745E-12	6.534E-12	4.682E-12	3.515E-12	2.733E-12	2.183E-12	1.782E-12
NW	1.320E-10	6.469E-11	4.059E-11	2.052E-11	1.242E-11	8.325E-12	5.965E-12	4.479E-12	3.483E-12	2.782E-12	2.271E-12
NNW	1.454E-10	7.124E-11	4.470E-11	2.259E-11	1.367E-11	9.168E-12	6.570E-12	4.933E-12	3.836E-12	3.064E-12	2.501E-12
N	1.855E-10	9.089E-11	5.703E-11	2.883E-11	1.745E-11	1.170E-11	8.382E-12	6.294E-12	4.894E-12	3.909E-12	3.191E-12
NNE	3.250E-10	1.593E-10	9.993E-11	5.051E-11	3.057E-11	2.050E-11	1.469E-11	1.103E-11	8.575E-12	6.850E-12	5.591E-12
NE	4.336E-10	2.125E-10	1.333E-10	6.739E-11	4.079E-11	2.735E-11	1.960E-11	1.471E-11	1.144E-11	9.139E-12	7.459E-12
ENE	2.648E-10	1.298E-10	8.143E-11	4.116E-11	2.491E-11	1.670E-11	1.197E-11	8.987E-12	6.988E-12	5.582E-12	4.556E-12
E	2.206E-10	1.081E-10	6.782E-11	3.420E-11	2.075E-11	1.391E-11	9.968E-12	7.485E-12	5.819E-12	4.649E-12	3.794E-12
ESE	1.713E-10	8.393E-11	5.266E-11	2.662E-11	1.611E-11	1.080E-11	7.740E-12	5.812E-12	4.519E-12	3.610E-12	2.946E-12
SE	1.947E-10	9.539E-11	5.985E-11	3.025E-11	1.831E-11	1.228E-11	8.797E-12	6.606E-12	5.136E-12	4.103E-12	3.349E-12
SSE	2.941E-10	1.441E-10	9.042E-11	4.570E-11	2.766E-11	1.855E-11	1.329E-11	9.979E-12	7.759E-12	6.198E-12	5.059E-12

***** RELATIVE DEPOSITION PER UNIT AREA (M**2) BY DOWNWIND SECTORS *****

DIRECTION FROM SITE	SEGMENT BOUNDARIES IN MILES									
	0-1	1-2	2-3	3-4	4-5	5-10	10-20	20-30	30-40	40-50
S	1.030E-08	3.182E-09	1.266E-09	6.920E-10	4.398E-10	1.889E-10	5.958E-11	2.322E-11	1.240E-11	7.674E-12
SSW	8.683E-09	2.683E-09	1.067E-09	5.833E-10	3.767E-10	1.593E-10	4.938E-11	1.957E-11	1.045E-11	6.469E-12
SW	6.304E-09	1.948E-09	7.75E-10	4.235E-10	2.692E-10	1.156E-10	3.585E-11	1.421E-11	7.588E-12	4.697E-12
WSW	4.710E-09	1.455E-09	5.721E-10	3.164E-10	2.011E-10	8.639E-11	2.679E-11	1.062E-11	5.670E-12	3.509E-12
W	4.115E-09	1.271E-09	5.059E-10	2.765E-10	1.757E-10	7.548E-11	2.341E-11	9.277E-12	4.954E-12	3.066E-12
WNW	2.950E-09	9.113E-10	3.626E-10	1.982E-10	1.260E-10	5.410E-11	1.678E-11	6.649E-12	3.551E-12	2.198E-12
NW	3.759E-09	1.361E-09	4.621E-10	2.525E-10	1.605E-10	6.894E-11	2.138E-11	8.472E-12	4.524E-12	2.800E-12
NNW	4.139E-09	1.274E-09	5.094E-10	2.781E-10	1.767E-10	7.592E-11	2.354E-11	9.330E-12	4.983E-12	3.084E-12
N	5.231E-09	1.632E-09	6.493E-10	3.548E-10	2.255E-10	9.616E-11	3.004E-11	1.190E-11	6.357E-12	3.935E-12
NNE	9.254E-09	2.859E-09	1.130E-09	6.217E-10	3.951E-10	1.677E-10	5.263E-11	2.086E-11	1.114E-11	6.895E-12
NE	1.235E-08	3.914E-09	1.513E-09	8.294E-10	5.272E-10	2.264E-10	7.322E-11	2.783E-11	1.486E-11	9.199E-12
ENE	7.541E-09	2.330E-09	9.271E-10	5.666E-10	3.220E-10	1.383E-10	4.289E-11	1.700E-11	9.077E-12	5.619E-12
E	6.200E-09	1.940E-09	7.721E-10	4.219E-10	2.682E-10	1.152E-10	3.372E-11	1.416E-11	7.560E-12	4.679E-12
ESE	4.7E-09	1.567E-09	5.925E-10	3.276E-10	2.082E-10	8.944E-11	2.774E-11	1.099E-11	5.810E-12	3.6E-12
SE	5.3E-09	1.712E-09	6.814E-10	3.724E-10	2.367E-10	1.017E-10	3.152E-11	1.249E-11	6.672E-12	4.2E-12
SSE	8.374E-09	2.587E-09	1.027E-09	5.625E-10	3.575E-10	1.536E-10	4.702E-11	1.888E-11	1.008E-11	6.239E-12

RELEASE HEIGHT (METERS) 0.0
DIAMETER (METERS) 0.0
EXIT VELOCITY (METERS) 0.0

REP. WIND HEIGHT (METERS) 10.0
BUILDING HEIGHT (METERS) 56.0
BLDG.-MIN.-CRS.-SEC.AREA (SQ.METERS) 2120.0
HEAT EMISSION RATE (CAL/SEC) 0.0

AT THE RELEASE HEIGHT: WIND SPEED (METERS/SEC) | AT THE MEASURED WIND HEIGHT (11.0 METERS): WIND SPEED (METERS/SEC)

VENT RELEASE MODE | | VENT RELEASE MODE | | VENT RELEASE MODE | | VENT RELEASE MODE | |

ELEVATED LESS THAN 0.0 AND 0.0 | ELEVATED STABLE CONDITIONS | ELEVATED STABLE CONDITIONS | ELEVATED STABLE CONDITIONS |

MIXED BETWEEN 0.0 AND 0.0 | MIXED BETWEEN 0.0 AND 0.0 | MIXED BETWEEN 0.0 AND 0.0 | MIXED BETWEEN 0.0 AND 0.0 |

GROUND LEVEL ABOVE 0.0 | GROUND LEVEL ABOVE 0.0 | GROUND LEVEL ABOVE 0.0 | GROUND LEVEL ABOVE 0.0 |

UNSTABLE/NEUTRAL CONDITIONS | UNSTABLE/NEUTRAL CONDITIONS | UNSTABLE/NEUTRAL CONDITIONS | UNSTABLE/NEUTRAL CONDITIONS |

Table with 4 columns: AT THE RELEASE HEIGHT: VENT RELEASE MODE, AT THE MEASURED WIND HEIGHT (11.0 METERS): VENT RELEASE MODE, WIND SPEED (METERS/SEC), UNSTABLE/NEUTRAL CONDITIONS. Rows 1-42.

EXIT ONE - GROUND LEVEL RELEASE -- 7/17/79-12/31/79

SPECIFIC POINTS OF INTEREST

RELEASE ID	TYPE OF LOCATION	DIRECTION	DISTANCE		X/Q			D/Q
			(MILES)	(METERS)	(SEC/CUB.METER)	(SEC/CUB.METER)	(SEC/CUB.METER)	(PER SQ.METER)
					NO DECAY	2.260 DAY DECAY	8.000 DAY DECAY	
					UNDEPLETED	UNDEPLETED	DEPLETED	
A	SITE BOUNDARY	S	1.04	1674.	1.9E-06	1.9E-06	1.7E-06	5.7E-09
A	SITE BOUNDARY	SSW	0.96	1545.	1.3E-06	1.3E-06	1.2E-06	5.5E-09
A	SITE BOUNDARY	SW	0.89	1432.	9.1E-07	9.0E-07	8.0E-07	4.5E-09
A	SITE BOUNDARY	WSW	0.74	1191.	9.4E-07	9.3E-07	8.3E-07	4.6E-09
A	SITE BOUNDARY	W	0.69	1110.	9.6E-07	9.6E-07	8.6E-07	4.6E-09
A	SITE BOUNDARY	WNW	0.64	1030.	8.0E-07	8.0E-07	7.2E-07	3.7E-09
A	SITE BOUNDARY	NW	0.70	1127.	8.7E-07	8.7E-07	7.8E-07	4.1E-09
A	SITE BOUNDARY	NNW	0.64	1030.	1.2E-06	1.2E-06	1.1E-06	5.2E-09
A	SITE BOUNDARY	N	0.64	1030.	1.3E-06	1.3E-06	1.2E-06	6.6E-09
A	SITE BOUNDARY	NNE	0.64	1030.	1.4E-06	1.4E-06	1.3E-06	1.2E-08
A	SITE BOUNDARY	NE	0.91	1465.	1.1E-06	1.1E-06	1.0E-06	8.6E-09
A	SITE BOUNDARY	ENE	0.67	1076.	2.4E-06	2.4E-06	2.2E-06	8.8E-09
A	SITE BOUNDARY	E	0.68	1094.	2.9E-06	2.9E-06	2.6E-06	7.1E-09
A	SITE BOUNDARY	ESE	0.68	1094.	2.4E-06	2.4E-06	2.1E-06	5.5E-09
A	SITE BOUNDARY	SE	0.67	1078.	2.9E-06	2.9E-06	2.6E-06	6.4E-09
A	SITE BOUNDARY	SSE	0.74	1191.	3.5E-06	3.5E-06	3.1E-06	8.2E-09
A	MILK LUG	SSE	0.79	1271.	3.2E-06	3.2E-06	2.8E-06	7.4E-09
A	MEAT ANIMAL	SW	1.70	2736.	3.6E-07	3.6E-07	3.0E-07	1.5E-09
A	MEAT ANIMAL	W	1.68	1738.	5.0E-07	4.9E-07	4.3E-07	2.1E-09
A	MEAT ANIMAL	NNE	1.10	1776.	6.5E-07	6.5E-07	5.7E-07	4.6E-09
A	MEAT ANIMAL	SE	0.79	1271.	2.2E-06	2.2E-06	2.0E-06	4.9E-09
A	MEAT ANIMAL	SSE	0.80	1287.	3.1E-06	3.1E-06	2.8E-06	7.2E-09
A	RESIDENCE	S	1.48	2382.	1.2E-06	1.2E-06	9.9E-07	3.1E-09
A	RESIDENCE	SSW	1.44	2317.	7.6E-07	7.5E-07	6.4E-07	2.7E-09
A	RESIDENCE	SW	0.89	1432.	9.1E-07	9.0E-07	8.0E-07	4.5E-09
A	RESIDENCE	WSW	1.00	1609.	6.1E-07	6.0E-07	5.3E-07	2.8E-09
A	RESIDENCE	W	0.87	1400.	6.8E-07	6.8E-07	6.0E-07	3.1E-09
A	RESIDENCE	WNW	0.79	1271.	5.8E-07	5.8E-07	5.1E-07	2.6E-09
A	RESIDENCE	NW	0.60	1287.	7.1E-07	7.1E-07	6.3E-07	3.2E-09
A	RESIDENCE	NNW	0.85	1368.	7.7E-07	7.6E-07	6.8E-07	3.2E-09
A	RESIDENCE	N	0.88	1416.	8.0E-07	7.9E-07	7.0E-07	3.9E-09
A	RESIDENCE	NNE	0.91	1465.	8.6E-07	8.6E-07	7.6E-07	6.4E-09
A	RESIDENCE	NE	2.24	3605.	3.1E-07	3.1E-07	2.5E-07	1.8E-09
A	RESIDENCE	E	0.94	1513.	1.8E-06	1.8E-06	1.6E-06	4.1E-09
A	RESIDENCE	SE	0.82	1320.	2.1E-06	2.1E-06	1.8E-06	4.6E-09
A	RESIDENCE	SSE	0.79	1271.	3.2E-06	3.2E-06	2.8E-06	7.4E-09
A	GARDEN	S	1.57	2527.	1.1E-06	1.1E-06	9.0E-07	2.8E-09
A	GARDEN	SSW	1.44	2317.	7.6E-07	7.5E-07	6.4E-07	2.7E-09
A	GARDEN	SW	1.04	1674.	7.2E-07	7.2E-07	6.3E-07	3.5E-09
A	GARDEN	WSW	1.10	1609.	6.1E-07	6.0E-07	5.3E-07	2.8E-09
A	GARDEN	W	0.87	1400.	6.8E-07	6.8E-07	6.0E-07	3.1E-09
A	GARDEN	WNW	0.81	1304.	5.6E-07	5.5E-07	4.9E-07	2.5E-09
A	GARDEN	NW	5.00	8047.	5.4E-08	5.3E-08	4.0E-08	1.3E-10
A	GARDEN	NNW	0.97	1561.	6.3E-07	6.3E-07	5.5E-07	2.6E-09
A	GARDEN	N	0.85	1368.	8.4E-07	8.3E-07	7.4E-07	4.1E-09
A	GARDEN	NNE	1.39	2237.	4.6E-07	4.6E-07	4.0E-07	3.1E-09
A	GARDEN	SE	0.94	1513.	1.7E-06	1.7E-06	1.5E-06	3.6E-09

VENT AND BUILDING PARAMETERS

RELEASE HEIGHT (METERS)	0.0	REP. WIND HEIGHT (METERS)	10.0
DIAMETER (METERS)	0.0	BUILDING HEIGHT (METERS)	56.9
EXIT VELOCITY (METERS)	0.0	BLDG. INT'L. SURF. AREA (SQ. METERS)	2120.0
		HEAT EMISSION RATE (CAL/SEC)	0.0

AT THE RELEASE MODE	WIND SPEED (METERS/SEC)	AT THE MEASURED WIND SPEED	WIND SPEED (METERS/SEC)	WIND SPEED (METERS/SEC)
ELEVATED	LESS THAN 0.0	ELEVATED	STABLE CONDITIONS	UNSTABLE/NEUTRAL CONDITIONS
MIXED	BETWEEN 0.0 AND 0.0	MIXED	LESS THAN 0.0	LESS THAN 0.0
GROUND LEVEL	ABOVE 0.0	GROUND LEVEL	ABOVE 0.0	ABOVE 0.0

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ENCLOSURE 4

DIFFUSION ANALYSIS
ELEVATED RELEASE
JULY 1 - DECEMBER 31, 1979
BRUNSWICK STEAM ELECTRIC PLANT

Description of Attachments

The attached tables provide estimates of relative ground-level concentration (X/Q) and deposition (D/Q) for the period July 1 through December 31, 1979, for an elevated release.

A description of the tables is as follows:

- Table 1 - Undecayed, undepleted X/Q for standard distances.
- Table 2 - 2.26-day decay, undepleted X/Q for standard distances.
- Table 3 - 8.0-day decay, depleted X/Q for standard distances.
- Table 4 - Deposition estimates for standard distances.
- Table 5 - X/Q and D/Q estimates for site boundary locations and special points of interest.

Method of Calculation

The elevated release calculations represent sector averaged concentrations at the given distances from the center of the reactor buildings. The computer code used (XOQDOQ) was received from the U. S. Nuclear Regulatory Commission (NRC), Hydrology Meteorology Branch. ⁽¹⁾

⁽¹⁾ Program for the Meteorological Evaluation of Routine Effluent Releases at Nuclear Power Stations, J. F. Sagendorf and J. T. Goll, August 29, 1976.

Input variables included:

1. Elevation-distance relationships from the December 1978 site survey.
2. Joint wind frequency from the 100 meter level on-site meteorological tower.
3. Sigma Z limited to 1000 meters.
4. Calm winds included with joint frequency and distributed according to the occurrence in the lowest non-calm speed class.

The adjustment factors to account for the straight-line flow model limitations (RG 1.111, Section C.1.c) were not applied. The code was modified to incorporate the revised curves for estimating plume depletion and ground deposition (XOQDOQ - ERRATA, November 8, 1976).

Relative Concentration Estimates

The site boundary distances used for the calculations are as prepared for the June 4, 1976, Appendix I submittal to the NRC. Special point distances were obtained from the December 1978 site survey.

The maximum undepleted, undecayed X/Q value at the site boundary is $2.9E-08$ in the NE sector. Site boundary maximums for previous six-month periods are as follows:

JAN - JUN 1978	$2.1E-08$	NE Sector
JUL - DEC 1978	$3.0E-08$	NE, SW Sectors
JAN - JUN 1979	$3.4E-08$	NE Sector

The maximum elevated release X/Q value occurs beyond the site boundary and is approximately $4.1E-08$ at a point two miles NE of the plant center.

X0000 - BRUNSWICK ELEVATED RELEASE 7/1/79-12/31/79

THE JOINT FREQUENCY DISTRIBUTION, I=WIND SPEED CLASS, J= STABILITY CLASS

DIRECTION =	N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW
1= 1, J= 1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
1= 2, J= 1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
1= 3, J= 1	0.0	0.0	0.02	0.02	0.0	0.0	0.0	0.02	0.0	0.05	0.0	0.02	0.0	0.0	0.0	0.0
1= 4, J= 1	0.02	0.14	0.05	0.0	0.02	0.0	0.02	0.0	0.0	0.0	0.09	0.07	0.02	0.02	0.0	0.05
1= 5, J= 1	0.02	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.02	0.02	0.02	0.0	0.0	0.0
1= 6, J= 1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
1= 7, J= 1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
1= 1, J= 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
1= 2, J= 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
1= 3, J= 2	0.0	0.0	0.0	0.0	0.0	0.0	0.02	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
1= 4, J= 2	0.07	0.0	0.02	0.0	0.0	0.02	0.16	0.0	0.02	0.0	0.0	0.0	0.0	0.0	0.0	0.0
1= 5, J= 2	0.0	0.0	0.02	0.0	0.07	0.02	0.05	0.0	0.0	0.0	0.11	0.0	0.0	0.0	0.0	0.0
1= 6, J= 2	0.0	0.0	0.02	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.09	0.0	0.0	0.0	0.0	0.02
1= 7, J= 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	0.02
1= 1, J= 3	0.0	0.0	0.0	0.0	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, J= 3	0.0	0.0	0.0	0.0	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= 3, J= 3	0.02	0.07	0.0	0.02	0.05	0.02	0.0	0.07	0.02	0.0	0.0	0.02	0.05	0.02	0.05	0.02
1= 4, J= 3	0.07	0.02	0.05	0.16	0.05	0.09	0.20	0.09	0.07	0.11	0.07	0.07	0.07	0.05	0.07	0.11
1= 5, J= 3	0.09	0.02	0.09	0.07	0.02	0.09	0.07	0.11	0.16	0.09	0.57	0.0	0.0	0.02	0.07	0.18
1= 6, J= 3	0.07	0.0	0.07	0.02	0.05	0.0	0.0	0.0	0.0	0.02	0.32	0.05	0.0	0.02	0.02	0.16
1= 7, J= 3	0.0	0.0	0.0	0.0	0.02	0.0	0.05	0.0	0.0	0.05	0.0	0.0	0.0	0.0	0.0	0.05
1= 1, J= 4	0.0	0.0	0.0	0.0	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, J= 4	0.02	0.02	0.02	0.0	0.0	0.05	0.0	0.0	0.05	0.0	0.0	0.02	0.05	0.02	0.0	0.0
1= 3, J= 4	0.14	0.14	0.16	0.14	0.23	0.20	0.30	0.20	0.25	0.39	0.20	0.36	0.34	0.23	0.25	0.32
1= 4, J= 4	0.77	0.82	0.50	0.61	0.68	0.41	0.30	0.48	0.75	1.25	1.04	0.50	0.59	0.68	0.36	0.57
1= 5, J= 4	2.00	1.98	1.09	0.59	0.43	0.32	0.16	0.43	0.50	1.57	2.04	0.70	0.32	0.50	0.48	0.86
1= 6, J= 4	0.34	0.41	1.04	0.59	0.23	0.14	0.02	0.07	0.32	0.86	1.73	0.32	0.11	0.18	0.07	0.43
1= 7, J= 4	0.09	0.02	0.07	0.0	0.0	0.0	0.09	0.05	0.05	0.84	0.52	0.07	0.02	0.0	0.0	0.11
1= 1, J= 5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
1= 2, J= 5	0.0	0.0	0.0	0.0	0.05	0.0	0.02	0.05	0.0	0.05	0.0	0.0	0.0	0.02	0.0	0.0
1= 3, J= 5	0.14	0.18	0.05	0.11	0.09	0.09	0.11	0.18	0.11	0.14	0.23	0.30	0.16	0.05	0.09	0.07
1= 4, J= 5	0.16	0.07	0.14	0.25	0.52	0.14	0.27	0.61	0.84	0.48	0.70	1.07	0.84	0.32	0.09	0.20
1= 5, J= 5	0.77	1.54	1.07	0.77	0.66	0.39	0.32	0.32	0.50	1.04	2.25	1.36	0.61	0.39	0.32	0.45
1= 6, J= 5	0.36	1.61	0.60	0.61	0.09	0.23	0.41	0.66	0.27	0.68	1.82	0.36	0.23	0.20	0.09	0.34
1= 7, J= 5	0.02	0.02	0.0	0.05	0.05	0.16	0.27	0.45	0.41	0.68	0.43	0.14	0.0	0.0	0.02	0.02
1= 1, J= 6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
1= 2, J= 6	0.0	0.02	0.02	0.0	0.05	0.0	0.0	0.02	0.05	0.0	0.0	0.0	0.02	0.0	0.0	0.02
1= 3, J= 6	0.05	0.09	0.14	0.11	0.07	0.07	0.05	0.09	0.14	0.18	0.14	0.20	0.16	0.09	0.05	0.02
1= 4, J= 6	0.07	0.11	0.36	0.43	0.39	0.05	0.18	0.45	0.27	0.16	0.34	0.68	0.52	0.18	0.18	0.07
1= 5, J= 6	0.16	0.23	0.40	0.27	0.16	0.14	0.20	0.11	0.07	0.05	0.30	0.52	0.50	0.32	0.25	0.18
1= 6, J= 6	0.41	0.39	0.23	0.02	0.0	0.02	0.05	0.14	0.11	0.07	0.11	0.11	0.09	0.20	0.09	0.09
1= 7, J= 6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.02	0.0	0.0	0.0	0.05	0.07	0.0	0.0
1= 1, J= 7	0.0	0.0	0.0	0.0	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, J= 7	0.09	0.02	0.02	0.02	0.05	0.0	0.05	0.0	0.07	0.02	0.09	0.0	0.05	0.02	0.05	0.05
1= 3, J= 7	0.18	0.11	0.09	0.16	0.18	0.14	0.09	0.11	0.32	0.27	0.25	0.25	0.45	0.0	0.09	0.26
1= 4, J= 7	0.23	0.27	0.39	0.14	0.20	0.09	0.14	0.11	0.34	0.07	0.09	0.43	0.48	0.41	0.27	0.32
1= 5, J= 7	0.18	0.39	0.20	0.09	0.11	0.16	0.05	0.11	0.14	0.16	0.07	0.05	0.25	0.32	0.32	0.32
1= 6, J= 7	0.07	0.25	0.0	0.0	0.0	0.0	0.0	0.0	0.05	0.0	0.0	0.0	0.05	0.20	0.07	0.16
1= 7, J= 7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

TOTAL 6.61 8.95 7.20 5.27 4.52 3.02 3.63 4.95 5.88 9.27 13.63 7.70 6.04 4.54 3.34 5.43

TOTAL HOURS CONSIDERED ARE 4402

WIND MEASURED AT 104.0 METERS.

THE MAX WIND SPEED (METERS/SEC) IN EACH CLASS IS 0.335 0.65 3.353 5.588 8.270 11.176 11.623

THE CONVERSION FACTOR APPLIED TO THE WIND SPEED CLASSES IS 0.447

ESTIMATED WIND SPEEDS IN METERS AS FUNCTIONS OF DIRECTION FROM THE SITE:

DIRECTION =	S	SSW	SW	WSW	W	WNW	NW	NNW	N	NNE	NE	ENE	E	ESE	SE	SSE
DISTANCE	402.	402.	402.	402.	402.	402.	402.	402.	402.	402.	402.	402.	402.	402.	402.	402.
ELEVATION	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
DISTANCE	1207.	1207.	1207.	1175.	1070.	906.	906.	982.	998.	1014.	1014.	1014.	1078.	1094.	1078.	1110.
ELEVATION	0.	0.	0.	0.	0.	0.	8.	0.	0.	0.	0.	0.	0.	7.	0.	0.
DISTANCE	1674.	1545.	1432.	1191.	1110.	1030.	1127.	1030.	1030.	1030.	1207.	1078.	1094.	1110.	1094.	1191.
ELEVATION	0.	0.	0.	0.	0.	0.	8.	0.	0.	0.	0.	0.	0.	7.	0.	0.
DISTANCE	2012.	2012.	1674.	1207.	1207.	1207.	1207.	1207.	1207.	1207.	1465.	1207.	1207.	1207.	1207.	1207.
ELEVATION	0.	0.	0.	0.	0.	0.	8.	0.	0.	0.	0.	0.	0.	7.	0.	0.
DISTANCE	2382.	2317.	2012.	1609.	1400.	1271.	1267.	1368.	1368.	1465.	2012.	2012.	1513.	2012.	1271.	1271.
ELEVATION	0.	0.	0.	0.	0.	0.	8.	0.	0.	0.	0.	7.	7.	9.	0.	0.
DISTANCE	2527.	2816.	2736.	2012.	1738.	1304.	2012.	1561.	1416.	1770.	2816.	2816.	2012.	2816.	1320.	1287.
ELEVATION	0.	0.	0.	0.	0.	0.	9.	0.	0.	0.	0.	3.	7.	10.	0.	0.
DISTANCE	2816.	3621.	2816.	2816.	2012.	2012.	2816.	2012.	2012.	2012.	3605.	3621.	2816.	3621.	1513.	2012.
ELEVATION	0.	0.	0.	0.	0.	0.	10.	7.	0.	0.	0.	0.	8.	10.	0.	0.
DISTANCE	3621.	4426.	3621.	3621.	2816.	2816.	3621.	2816.	2816.	2237.	3621.	4426.	3621.	4426.	2012.	2816.
ELEVATION	0.	0.	0.	0.	11.	7.	10.	9.	0.	0.	0.	8.	8.	10.	0.	0.
DISTANCE	4426.	5230.	4426.	4426.	3621.	3621.	4426.	3621.	3621.	2816.	4426.	5230.	4426.	5230.	2816.	3621.
ELEVATION	0.	0.	0.	0.	12.	11.	12.	10.	10.	0.	0.	8.	8.	10.	0.	0.
DISTANCE	5230.	6035.	5230.	5230.	4426.	4426.	5230.	4426.	4426.	3621.	5230.	6035.	5230.	6035.	3621.	4426.
ELEVATION	0.	0.	0.	0.	12.	13.	12.	11.	10.	7.	9.	8.	8.	10.	0.	0.

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EXIT THREE ELEVATED RELEASE 7/1/79-12/31/79

NO DECAY, UNDEPLETED

ANNUAL AVERAGE CHI/Q (SEC/METER CUBED)

DISTANCE IN MILES

SECTOR	0.250	0.500	0.750	1.000	1.500	2.000	2.500	3.000	3.500	4.000	4.500
S	3.389E-09	6.306E-09	1.109E-08	1.666E-08	2.224E-08	2.247E-08	2.067E-08	1.888E-08	1.695E-08	1.524E-08	1.376E-08
SSW	8.871E-09	4.868E-09	9.296E-09	1.588E-08	2.378E-08	2.544E-08	2.451E-08	2.275E-08	2.085E-08	1.904E-08	1.741E-08
SW	6.120E-09	5.680E-09	8.741E-09	1.330E-08	1.853E-08	1.929E-08	1.834E-08	1.692E-08	1.546E-08	1.412E-08	1.293E-08
WSW	2.522E-09	4.654E-09	8.363E-09	1.177E-08	1.529E-08	1.569E-08	1.488E-08	1.374E-08	1.257E-08	1.150E-08	1.054E-08
W	2.173E-09	4.450E-09	7.146E-09	1.021E-08	1.519E-08	1.717E-08	1.641E-08	1.510E-08	1.360E-08	1.260E-08	1.154E-08
WNW	5.621E-10	4.115E-09	6.458E-09	8.480E-09	1.097E-08	1.190E-08	1.177E-08	1.081E-08	9.705E-09	8.727E-09	7.861E-09
NW	4.359E-09	1.226E-08	1.234E-08	1.249E-08	1.222E-08	1.295E-08	1.230E-08	1.139E-08	1.030E-08	9.343E-09	8.506E-09
NNW	2.518E-09	4.789E-09	7.900E-09	1.057E-08	1.446E-08	1.586E-08	1.587E-08	1.509E-08	1.396E-08	1.289E-08	1.190E-08
N	3.571E-10	4.107E-09	7.972E-09	1.190E-08	1.680E-08	1.893E-08	1.918E-08	1.787E-08	1.636E-08	1.495E-08	1.369E-08
NNE	4.964E-09	5.208E-09	1.232E-08	2.136E-08	3.130E-08	3.331E-08	3.189E-08	2.911E-08	2.632E-08	2.378E-08	2.155E-08
NE	6.904E-09	1.577E-08	2.358E-08	3.128E-08	3.981E-08	4.077E-08	3.661E-08	3.637E-08	3.378E-08	3.063E-08	2.785E-08
ENE	7.890E-09	4.209E-09	6.734E-09	1.138E-08	1.880E-08	2.169E-08	2.183E-08	2.089E-08	1.962E-08	1.829E-08	1.703E-08
E	2.492E-09	2.790E-09	5.702E-09	9.471E-09	1.473E-08	1.641E-08	1.622E-08	1.540E-08	1.432E-08	1.337E-08	1.252E-08
ESE	1.497E-09	2.220E-09	5.482E-09	9.579E-09	1.426E-08	1.488E-08	1.400E-08	1.282E-08	1.165E-08	1.058E-08	9.650E-09
SE	5.527E-11	2.957E-09	5.989E-09	8.327E-09	1.043E-08	1.039E-08	9.632E-09	8.733E-09	7.881E-09	7.126E-09	6.471E-09
SSE	3.408E-09	7.354E-09	1.170E-08	1.536E-08	1.839E-08	1.792E-08	1.636E-08	1.465E-08	1.307E-08	1.170E-08	1.053E-08

ANNUAL AVERAGE CHI/Q (SEC/METER CUBED)

DISTANCE IN MILES

BEARING	5.000	7.500	10.000	15.000	20.000	25.000	30.000	35.000	40.000	45.000	50.000
S	1.248E-08	8.250E-09	5.992E-09	3.745E-09	2.669E-09	2.049E-09	1.652E-09	1.377E-09	1.176E-09	1.025E-09	9.057E-10
SSW	1.597E-08	1.094E-08	8.113E-09	5.190E-09	3.740E-09	2.888E-09	2.335E-09	1.949E-09	1.660E-09	1.451E-09	1.281E-09
SW	1.189E-08	8.279E-09	6.242E-09	4.099E-09	3.011E-09	2.360E-09	1.930E-09	1.626E-09	1.401E-09	1.228E-09	1.091E-09
WSW	9.699E-09	6.771E-09	5.165E-09	3.350E-09	2.459E-09	1.925E-09	1.572E-09	1.323E-09	1.139E-09	9.969E-10	8.848E-10
W	1.061E-08	7.399E-09	5.581E-09	3.668E-09	2.698E-09	2.117E-09	1.733E-09	1.462E-09	1.261E-09	1.106E-09	9.840E-10
WNW	7.155E-09	4.754E-09	3.469E-09	2.184E-09	1.565E-09	1.205E-09	9.730E-10	8.117E-10	6.938E-10	6.041E-10	5.338E-10
NW	7.788E-09	5.354E-09	3.995E-09	2.588E-09	1.888E-09	1.473E-09	1.200E-09	1.008E-09	8.668E-10	7.584E-10	6.729E-10
NNW	1.161E-08	7.825E-09	5.950E-09	3.929E-09	2.869E-09	2.260E-09	1.844E-09	1.549E-09	1.331E-09	1.163E-09	1.030E-09
N	1.258E-08	8.727E-09	6.555E-09	4.288E-09	3.149E-09	2.472E-09	2.025E-09	1.711E-09	1.478E-09	1.299E-09	1.157E-09
NNE	1.960E-08	1.305E-08	9.491E-09	5.915E-09	4.187E-09	3.190E-09	2.551E-09	2.110E-09	1.787E-09	1.547E-09	1.358E-09
NE	2.543E-08	1.718E-08	1.263E-08	7.984E-09	5.710E-09	4.383E-09	3.523E-09	2.927E-09	2.491E-09	2.161E-09	1.902E-09
ENE	1.586E-08	1.149E-08	8.830E-09	5.902E-09	4.367E-09	3.434E-09	2.813E-09	2.372E-09	2.044E-09	1.791E-09	1.591E-09
E	1.155E-08	8.380E-09	6.477E-09	4.394E-09	3.301E-09	2.632E-09	2.184E-09	1.862E-09	1.621E-09	1.435E-09	1.285E-09
ESE	8.836E-09	6.071E-09	4.540E-09	2.959E-09	2.168E-09	1.698E-09	1.390E-09	1.173E-09	1.012E-09	8.883E-10	7.906E-10
SE	5.906E-09	4.021E-09	2.997E-09	1.955E-09	1.441E-09	1.136E-09	9.353E-10	7.938E-10	6.889E-10	6.080E-10	5.439E-10
SSE	9.524E-09	6.260E-09	4.545E-09	2.859E-09	2.058E-09	1.595E-09	1.296E-09	1.089E-09	9.372E-10	8.214E-10	7.305E-10

CHI/Q (SEC/METER CUBED) FOR EACH SEGMENT

SEGMENT BOUNDARIES IN MILES

DIRECTION FROM SITE	.5-1	1-2	2-3	3-4	4-5	5-10	10-20	20-30	30-40	40-50
S	1.256E-08	2.110E-08	2.050E-08	1.685E-08	1.372E-08	8.186E-09	3.766E-09	2.056E-09	1.379E-09	1.026E-09
SSW	1.124E-08	2.276E-08	2.406E-08	2.070E-08	1.736E-08	1.080E-08	5.195E-09	2.894E-09	1.952E-09	1.452E-09
SW	1.009E-08	1.771E-08	1.803E-08	1.537E-08	1.290E-08	8.175E-09	4.091E-09	2.361E-09	1.627E-09	1.228E-09
WSW	9.050E-09	1.468E-08	1.464E-08	1.250E-08	1.051E-08	6.681E-09	3.354E-09	1.722E-09	1.324E-09	9.214E-10
W	7.910E-09	1.496E-08	1.609E-08	1.372E-08	1.151E-08	7.305E-09	3.662E-09	2.118E-09	1.463E-09	1.107E-09
WNW	6.836E-09	1.083E-08	1.142E-08	9.649E-09	7.863E-09	4.716E-09	2.194E-09	1.208E-09	8.129E-10	6.047E-10
NW	1.239E-08	1.293E-08	1.211E-08	1.025E-08	8.488E-09	5.291E-09	2.590E-09	1.474E-09	1.009E-09	7.569E-10
NNW	8.395E-09	1.422E-08	1.555E-08	1.387E-08	1.186E-08	7.700E-09	3.916E-09	2.261E-09	1.550E-09	1.163E-09
N	8.860E-09	1.666E-08	1.859E-08	1.625E-08	1.365E-08	8.618E-09	4.286E-09	2.474E-09	1.712E-09	1.299E-09
NNE	4.76E-08	2.998E-08	3.115E-08	2.615E-08	2.149E-08	1.292E-08	5.941E-09	3.200E-09	2.114E-09	1.499E-09
NE	5.31E-08	3.834E-08	3.829E-08	3.332E-08	2.77E-08	1.699E-08	8.006E-09	4.393E-09	2.931E-09	2.03E-09
ENE	8.257E-09	1.844E-08	2.142E-08	1.947E-08	1.697E-08	1.126E-08	5.870E-09	3.435E-09	2.373E-09	1.792E-09

EXIT THREE ELEVATED RELEASE 7/1/79-12/31/79
2.260 DAY DELAY, UNDEPLETED

ANNUAL AVERAGE CH1/9 (SEC/METER CUBED) DISTANCE IN MILES

SECTOR	0-250	0-500	0-750	1.000	1.500	2.000	2.500	3.000	3.500	4.000	4.500
S	3.388E-09	6.352E-09	1.108E-08	1.604E-08	2.220E-08	2.742E-08	3.264E-08	3.786E-08	4.308E-08	4.830E-08	5.352E-08
SSM	4.868E-09	4.864E-09	9.278E-09	1.586E-08	2.373E-08	2.539E-08	2.704E-08	2.868E-08	2.976E-08	3.084E-08	3.192E-08
SM	6.113E-09	5.677E-09	7.344E-09	1.349E-08	1.850E-08	1.925E-08	1.829E-08	1.688E-08	1.540E-08	1.406E-08	1.272E-08
MSM	2.520E-09	4.650E-09	8.212E-09	1.175E-08	1.526E-08	1.488E-08	1.369E-08	1.252E-08	1.135E-08	1.018E-08	9.02E-09
M	2.172E-09	4.447E-09	7.138E-09	1.020E-08	1.515E-08	1.712E-08	1.635E-08	1.503E-08	1.372E-08	1.252E-08	1.146E-08
MNM	5.619E-10	4.112E-09	9.452E-09	8.467E-09	1.094E-08	1.186E-08	1.172E-08	1.076E-08	9.646E-09	8.666E-09	7.819E-09
MM	4.357E-09	1.226E-08	1.423E-08	1.247E-08	1.319E-08	1.429E-08	1.426E-08	1.433E-08	1.405E-08	1.289E-08	1.154E-08
MNM	2.517E-09	4.785E-09	7.091E-09	1.055E-08	1.443E-08	1.581E-08	1.582E-08	1.502E-08	1.389E-08	1.281E-08	1.181E-08
M	3.570E-10	4.105E-09	7.964E-09	1.189E-08	1.676E-08	1.888E-08	1.918E-08	1.778E-08	1.627E-08	1.480E-08	1.360E-08
MNE	4.961E-09	5.204E-09	1.423E-08	2.134E-08	3.124E-08	3.323E-08	3.419E-08	3.490E-08	2.621E-08	2.466E-08	2.142E-08
NE	8.901E-09	1.597E-08	2.356E-08	3.125E-08	3.975E-08	4.809E-08	3.851E-08	3.626E-08	3.360E-08	3.051E-08	2.772E-08
ENE	7.881E-09	4.236E-09	6.127E-09	1.137E-08	1.870E-08	2.163E-08	2.175E-08	2.080E-08	1.952E-08	1.819E-08	1.692E-08
E	2.491E-09	2.788E-09	5.092E-09	7.495E-09	1.470E-08	1.632E-08	1.612E-08	1.532E-08	1.430E-08	1.328E-08	1.231E-08
ESE	1.496E-09	2.218E-09	5.476E-09	9.566E-09	1.423E-08	1.483E-08	1.395E-08	1.276E-08	1.158E-08	1.052E-08	9.580E-09
SE	5.526E-11	2.955E-09	5.978E-09	8.315E-09	1.041E-08	1.036E-08	9.597E-09	8.694E-09	7.841E-09	7.084E-09	6.429E-09
SSE	3.407E-09	1.351E-09	1.177E-08	1.535E-08	1.836E-08	1.788E-08	1.621E-08	1.459E-08	1.301E-08	1.164E-08	1.046E-08

ANNUAL AVERAGE CH1/9 (SEC/METER CUBED) DISTANCE IN MILES

SECTOR	5.000	7.500	10.000	15.000	20.000	25.000	30.000	35.000	40.000	45.000	50.000
S	1.241E-08	8.15E-09	5.918E-09	3.676E-09	2.603E-09	1.985E-09	1.588E-09	1.314E-09	1.115E-09	9.639E-10	8.457E-10
SSM	1.587E-08	1.084E-08	8.018E-09	5.097E-09	3.650E-09	2.801E-09	2.250E-09	1.866E-09	1.585E-09	1.371E-09	1.203E-09
SM	1.182E-08	8.205E-09	6.167E-09	4.023E-09	2.936E-09	2.285E-09	1.856E-09	1.553E-09	1.329E-09	1.137E-09	1.021E-09
MSM	9.643E-09	6.711E-09	5.045E-09	3.289E-09	2.399E-09	1.866E-09	1.519E-09	1.266E-09	1.082E-09	9.407E-10	8.292E-10
M	7.092E-09	4.303E-09	5.482E-09	3.567E-09	2.597E-09	2.017E-09	1.635E-09	1.365E-09	1.165E-09	1.016E-09	8.902E-10
MNM	7.093E-09	4.692E-09	3.409E-09	2.129E-09	1.513E-09	1.156E-09	9.266E-10	7.664E-10	6.500E-10	5.611E-10	4.924E-10
M	7.726E-09	5.230E-09	3.931E-09	2.526E-09	1.828E-09	1.414E-09	1.142E-09	9.516E-10	8.111E-10	7.036E-10	6.189E-10
MNM	1.092E-08	7.730E-09	5.895E-09	3.831E-09	2.792E-09	2.166E-09	1.752E-09	1.459E-09	1.243E-09	1.077E-09	9.455E-10
N	1.248E-08	8.623E-09	6.449E-09	4.181E-09	3.043E-09	2.366E-09	1.975E-09	1.607E-09	1.375E-09	1.196E-09	1.055E-09
MNE	1.947E-08	1.292E-08	9.365E-09	5.795E-09	4.072E-09	3.088E-09	2.444E-09	2.007E-09	1.689E-09	1.450E-09	1.263E-09
NE	2.530E-08	1.705E-08	1.250E-08	7.457E-09	5.581E-09	4.263E-09	3.406E-09	2.812E-09	2.379E-09	2.050E-09	1.793E-09
ENE	1.574E-08	1.137E-08	8.706E-09	5.778E-09	4.246E-09	3.316E-09	2.697E-09	2.258E-09	1.932E-09	1.692E-09	1.483E-09
E	1.146E-08	8.275E-09	6.370E-09	4.286E-09	3.193E-09	2.525E-09	2.077E-09	1.757E-09	1.521E-09	1.333E-09	1.182E-09
ESE	8.765E-09	5.997E-09	4.468E-09	2.889E-09	2.103E-09	1.633E-09	1.327E-09	1.111E-09	9.516E-10	8.293E-10	7.327E-10
SE	5.863E-09	3.977E-09	2.954E-09	1.913E-09	1.400E-09	1.096E-09	8.954E-10	7.543E-10	6.490E-10	5.689E-10	5.050E-10
SSE	9.462E-09	6.198E-09	4.464E-09	2.800E-09	2.000E-09	1.538E-09	1.240E-09	1.034E-09	8.823E-10	7.671E-10	6.766E-10

CH1/9 (SEC/METER CUBED) FOR EACH SEGMENT

SEGMENT BOUNDARIES IN MILES

DIRECTION	0-5-1	1-2	2-3	3-4	4-5	5-10	10-20	20-30	30-40	40-50
S	1.249E-08	2.106E-08	2.044E-08	1.678E-08	1.365E-08	8.112E-09	3.697E-09	1.991E-09	1.317E-09	9.649E-10
SSM	1.122E-08	2.272E-08	2.389E-08	2.062E-08	1.727E-08	1.071E-08	5.103E-09	2.807E-09	1.669E-09	1.372E-09
SM	1.008E-08	1.708E-08	1.798E-08	1.531E-08	1.283E-08	8.102E-09	4.016E-09	2.287E-09	1.254E-09	1.157E-09
MSM	9.048E-09	1.466E-08	1.460E-08	1.245E-08	1.046E-08	6.822E-09	3.284E-09	1.868E-09	1.267E-09	9.547E-10
M	7.901E-09	1.493E-08	1.603E-08	1.364E-08	1.143E-08	7.209E-09	3.561E-09	2.019E-09	1.366E-09	1.012E-09
MNM	6.828E-09	1.080E-08	1.137E-08	9.590E-09	7.801E-09	4.656E-09	2.140E-09	1.159E-09	7.616E-10	5.621E-10
M	1.231E-08	1.290E-08	1.206E-08	1.019E-08	8.927E-09	5.227E-09	2.528E-09	1.416E-09	9.526E-10	7.041E-10
MNM	8.304E-09	1.418E-08	1.549E-08	1.380E-08	1.178E-08	7.606E-09	3.819E-09	2.167E-09	1.460E-09	1.077E-09
N	8.050E-09	1.362E-08	1.852E-08	1.617E-08	1.356E-08	8.514E-09	4.179E-09	2.368E-09	1.608E-09	1.197E-09
MNE	4.75E-08	2.993E-08	3.106E-08	2.604E-08	2.136E-08	1.280E-08	5.822E-09	3.090E-09	2.011E-09	1.42E-09
NE	3.02E-08	3.02E-08	3.02E-08	2.604E-08	2.136E-08	1.280E-08	5.822E-09	3.090E-09	2.011E-09	1.42E-09
E	8.74E-09	1.09E-08	2.136E-08	1.938E-08	1.686E-08	1.10E-08	5.748E-09	3.316E-09	2.260E-09	1.682E-09

EXIT THREE ELEVATED RELEASE 7/1/11-12/31/19

8:000 DAY DECAY, DEPLETED

ANNUAL AVERAGE CH1/9 (SCL/METER CUREU) DISTANCE IN MILES

SECTOR	0.250	0.500	0.750	1.000	1.500	2.000	2.500	3.000	3.500	4.000	4.500
S	3.389E-09	6.422E-09	1.095E-08	1.650E-08	2.191E-08	2.819E-08	2.028E-09	1.823E-08	1.627E-09	1.455E-08	1.307E-08
SSM	4.470E-09	4.827E-09	9.205E-09	1.576E-08	2.349E-08	2.498E-08	2.394E-08	2.211E-08	2.017E-08	1.835E-08	1.672E-08
SM	6.119E-09	5.032E-09	6.653E-09	1.318E-08	1.828E-08	1.892E-08	1.788E-08	1.640E-08	1.492E-08	1.357E-08	1.238E-08
MSM	2.521E-09	4.613E-09	8.253E-09	1.160E-08	1.503E-08	1.536E-08	1.449E-08	1.321E-08	1.214E-08	1.107E-08	1.011E-08
M	2.113E-09	4.411E-09	7.039E-09	1.008E-08	1.496E-08	1.084E-08	1.602E-08	1.468E-08	1.337E-08	1.217E-08	1.111E-08
MNM	5.020E-10	4.078E-09	6.297E-09	6.341E-09	1.077E-08	1.162E-08	1.144E-08	1.046E-08	9.341E-09	8.362E-09	7.521E-09
NM	4.358E-09	1.215E-08	1.408E-08	1.220E-08	1.290E-08	1.201E-08	1.195E-08	1.103E-08	9.954E-09	9.002E-09	8.110E-09
NMM	2.510E-09	4.746E-09	7.160E-09	1.039E-08	1.420E-08	1.553E-08	1.551E-08	1.471E-08	1.358E-08	1.251E-08	1.153E-08
N	3.571E-10	4.072E-09	7.857E-09	1.176E-08	1.655E-08	1.856E-08	1.872E-08	1.736E-08	1.584E-08	1.442E-08	1.317E-08
NME	4.963E-09	5.166E-09	1.222E-08	2.122E-08	3.091E-08	3.268E-08	2.821E-08	2.537E-08	2.281E-08	2.058E-08	1.858E-08
NE	6.903E-09	1.563E-08	2.321E-08	3.083E-08	3.914E-08	3.991E-08	3.761E-08	3.531E-08	3.268E-08	2.953E-08	2.637E-08
ENE	7.089E-09	4.252E-09	6.055E-09	1.129E-08	1.358E-08	2.135E-08	2.140E-08	2.041E-08	1.911E-08	1.788E-08	1.671E-08
E	4.492E-09	2.766E-09	5.027E-09	9.312E-09	1.453E-08	1.611E-08	1.585E-08	1.498E-08	1.395E-08	1.292E-08	1.197E-08
ESE	1.497E-09	2.202E-09	5.424E-09	9.504E-09	1.408E-08	1.459E-08	1.364E-08	1.242E-08	1.122E-08	1.016E-08	9.221E-09
SE	5.527E-11	2.931E-09	5.888E-09	8.200E-09	1.024E-08	1.013E-08	9.336E-09	8.415E-09	7.555E-09	6.798E-09	6.147E-09
SSE	3.408E-09	7.290E-09	1.158E-08	1.512E-08	1.803E-08	1.747E-08	1.584E-08	1.410E-08	1.251E-08	1.114E-08	9.910E-09

ANNUAL AVERAGE CH1/9 (SCL/METER CUREU) DISTANCE IN MILES

BEARING	5.000	7.500	10.000	15.000	20.000	25.000	30.000	35.000	40.000	45.000	50.000
S	1.180E-08	7.667E-09	5.498E-09	3.376E-09	2.137E-09	1.806E-09	1.544E-09	1.196E-09	1.016E-09	8.817E-10	7.748E-10
SSM	1.528E-08	1.003E-09	7.608E-09	4.804E-09	3.436E-09	2.636E-09	2.119E-09	1.760E-09	1.498E-09	1.301E-09	1.144E-09
SM	1.134E-08	7.005E-09	5.838E-09	3.794E-09	2.767E-09	2.156E-09	1.755E-09	1.473E-09	1.264E-09	1.105E-09	9.781E-10
MSM	9.278E-09	6.414E-09	4.805E-09	3.124E-09	2.278E-09	1.773E-09	1.442E-09	1.208E-09	1.036E-09	9.046E-10	7.996E-10
M	1.019E-08	7.040E-09	5.276E-09	3.438E-09	2.507E-09	1.958E-09	1.595E-09	1.339E-09	1.150E-09	1.005E-09	8.898E-10
MNM	6.803E-09	4.456E-09	3.218E-09	1.996E-09	1.424E-09	1.088E-09	8.657E-10	7.187E-10	6.102E-10	5.295E-10	4.636E-10
NM	7.469E-09	5.009E-09	3.273E-09	2.420E-09	1.735E-09	1.356E-09	1.099E-09	9.180E-10	7.851E-10	6.849E-10	6.036E-10
NMM	1.065E-08	7.521E-09	5.693E-09	3.734E-09	2.729E-09	2.124E-09	1.732E-09	1.443E-09	1.235E-09	1.075E-09	9.466E-10
N	1.206E-08	8.204E-09	6.178E-09	4.002E-09	2.918E-09	2.277E-09	1.857E-09	1.562E-09	1.343E-09	1.177E-09	1.044E-09
NNE	1.864E-08	1.222E-08	8.792E-09	5.391E-09	3.710E-09	2.845E-09	2.256E-09	1.853E-09	1.562E-09	1.346E-09	1.174E-09
NE	2.437E-08	1.629E-08	1.180E-08	7.462E-09	5.264E-09	4.011E-09	3.205E-09	2.648E-09	2.242E-09	1.908E-09	1.693E-09
ENE	1.535E-08	1.105E-08	8.451E-09	5.612E-09	4.132E-09	3.237E-09	2.642E-09	2.220E-09	1.908E-09	1.608E-09	1.417E-09
E	1.111E-08	7.993E-09	6.145E-09	4.140E-09	3.094E-09	2.458E-09	2.032E-09	1.727E-09	1.500E-09	1.324E-09	1.182E-09
ESE	8.413E-09	5.706E-09	4.231E-09	2.825E-09	1.981E-09	1.543E-09	1.257E-09	1.056E-09	9.081E-10	7.958E-10	7.055E-10
SE	5.589E-09	3.752E-09	2.771E-09	1.785E-09	1.305E-09	1.022E-09	8.378E-10	7.082E-10	6.121E-10	5.395E-10	4.806E-10
SSE	4.982E-09	3.803E-09	4.162E-09	2.573E-09	1.829E-09	1.404E-09	1.134E-09	9.451E-10	8.088E-10	7.066E-10	6.247E-10

CH1/9 (SEC/METER CUREU) FOR EACH SEGMENT

DIRECTION 5-1 1-2 2-3 3-4 4-5 5-10

SEGMENT BOUNDARIES IN MILES

FROM SITE	5-1	1-2	2-3	3-4	4-5	5-10	10-20	20-30	30-40	40-50
S	1.637E-08	2.075E-08	1.992E-08	1.618E-08	1.304E-08	1.622E-09	3.493E-09	1.813E-09	1.198E-09	0.818E-10
SSM	1.115E-08	2.294E-08	2.348E-08	2.003E-08	1.667E-08	1.023E-08	4.821E-09	2.642E-09	1.763E-09	1.301E-09
SM	9.981E-09	1.743E-08	1.750E-08	1.488E-08	1.234E-08	7.116E-09	3.792E-09	2.158E-09	1.474E-09	1.105E-09
MSM	8.933E-09	1.541E-08	1.525E-08	1.240E-08	1.009E-08	6.335E-09	3.121E-09	1.875E-09	1.209E-09	9.040E-10
M	7.807E-09	1.471E-08	1.571E-08	1.329E-08	1.101E-08	6.956E-09	3.433E-09	1.966E-09	1.340E-09	1.005E-09
MNM	6.729E-09	1.061E-08	1.110E-08	9.287E-09	7.504E-09	4.427E-09	2.009E-09	1.083E-09	7.190E-10	5.296E-10
NM	1.215E-08	1.262E-08	1.176E-08	9.900E-09	8.159E-09	5.993E-09	2.424E-09	1.359E-09	9.189E-10	6.842E-10
NMM	8.257E-09	1.395E-08	1.520E-08	1.349E-08	1.149E-08	7.403E-09	3.722E-09	2.126E-09	1.444E-09	1.076E-09
N	8.749E-09	1.638E-08	1.814E-08	1.573E-08	1.313E-08	8.188E-09	4.004E-09	2.280E-09	1.563E-09	1.117E-09
NME	1.051E-08	2.954E-08	3.036E-08	2.521E-08	2.052E-08	1.212E-08	5.426E-09	2.856E-09	1.858E-09	1.385E-09
NE	4.961E-09	3.761E-08	3.730E-08	2.623E-08	2.070	1.013E-08	7.456E-09	4.802E-09	2.653E-09	1.9E-09
ENE	8.117E-09	1.819E-08	2.079E-08	1.590E-08	1.646E-08	1.089E-08	5.585E-09	3.473E-09	2.222E-09	1.668E-09

EXIT THREE ELEVATED RELEASE 7/17/79-12/31/79

RELATIVE DEPOSITION PER UNIT AREA (M²-2) AT FIXED POINTS BY DOWNWIND SECTORS

DIRECTION FROM SITE	DISTANCES IN MILES											
	0.25	0.50	0.75	1.00	1.50	2.00	2.50	3.00	3.50	4.00	4.50	
S	5.341E-10	5.108E-10	5.471E-10	5.718E-10	4.352E-10	3.420E-10	2.718E-10	2.187E-10	1.781E-10	1.466E-10	1.220E-10	
SSW	3.749E-10	3.977E-10	4.753E-10	5.258E-10	4.142E-10	3.294E-10	2.633E-10	2.125E-10	1.733E-10	1.428E-10	1.188E-10	
SW	4.980E-10	4.673E-10	4.882E-10	5.031E-10	3.794E-10	2.972E-10	2.358E-10	1.896E-10	1.543E-10	1.270E-10	1.057E-10	
WSW	4.281E-10	3.803E-10	3.705E-10	3.656E-10	2.678E-10	2.075E-10	1.630E-10	1.313E-10	1.067E-10	8.782E-11	7.305E-11	
W	3.936E-10	3.417E-10	3.222E-10	3.109E-10	2.242E-10	1.727E-10	1.359E-10	1.080E-10	8.834E-11	7.266E-11	6.044E-11	
WNW	3.585E-10	2.992E-10	2.829E-10	2.450E-10	1.708E-10	1.293E-10	1.015E-10	8.095E-11	6.563E-11	5.394E-11	4.487E-11	
NW	8.027E-10	6.076E-10	4.493E-10	3.507E-10	2.097E-10	1.487E-10	1.119E-10	8.743E-11	7.014E-11	5.740E-11	4.773E-11	
NNW	4.230E-10	3.497E-10	3.055E-10	2.786E-10	1.924E-10	1.456E-10	1.136E-10	9.052E-11	7.335E-11	6.027E-11	5.013E-11	
N	3.961E-10	3.565E-10	3.537E-10	3.531E-10	2.607E-10	2.026E-10	1.601E-10	1.285E-10	1.045E-10	8.599E-11	7.153E-11	
NNE	4.615E-10	5.322E-10	6.062E-10	7.432E-10	5.913E-10	4.719E-10	3.778E-10	3.052E-10	2.490E-10	2.052E-10	1.707E-10	
NE	1.024E-09	1.518E-09	1.340E-09	1.232E-09	8.565E-10	6.501E-10	5.076E-10	4.049E-10	3.282E-10	2.698E-10	2.244E-10	
ENE	3.697E-10	3.366E-10	3.452E-10	3.517E-10	2.633E-10	2.057E-10	1.630E-10	1.309E-10	1.066E-10	8.771E-11	7.296E-11	
E	2.334E-10	2.217E-10	2.357E-10	2.453E-10	1.802E-10	1.461E-10	1.161E-10	9.338E-11	7.603E-11	6.260E-11	5.207E-11	
ESE	2.028E-10	2.068E-10	2.377E-10	2.579E-10	2.009E-10	1.592E-10	1.270E-10	1.024E-10	8.348E-11	6.876E-11	5.720E-11	
SE	2.951E-10	2.555E-10	2.401E-10	2.311E-10	1.603E-10	1.280E-10	1.007E-10	8.058E-11	6.544E-11	5.383E-11	4.577E-11	
SSE	8.768E-10	7.153E-10	6.111E-10	5.473E-10	3.724E-10	2.802E-10	2.179E-10	1.733E-10	1.403E-10	1.153E-10	9.588E-11	

DIRECTION FROM SITE	DISTANCES IN MILES											
	5.00	7.50	10.00	15.00	20.00	25.00	30.00	35.00	40.00	45.00	50.00	
S	1.024E-10	5.367E-11	3.400E-11	1.773E-11	1.109E-11	7.762E-12	5.774E-12	4.479E-12	3.585E-12	2.938E-12	2.455E-12	
SSW	9.970E-11	5.220E-11	3.363E-11	1.718E-11	1.072E-11	7.470E-12	5.536E-12	4.284E-12	3.422E-12	2.801E-12	2.338E-12	
SW	8.873E-11	4.651E-11	2.947E-11	1.538E-11	9.626E-12	6.747E-12	5.023E-12	3.900E-12	3.123E-12	2.560E-12	2.139E-12	
WSW	6.136E-11	3.219E-11	2.042E-11	1.068E-11	6.698E-12	4.716E-12	3.522E-12	2.741E-12	2.198E-12	1.805E-12	1.509E-12	
W	5.077E-11	2.665E-11	1.692E-11	8.860E-12	5.561E-12	3.926E-12	2.938E-12	2.289E-12	1.839E-12	1.509E-12	1.263E-12	
WNW	3.771E-11	1.932E-11	1.259E-11	6.616E-12	4.163E-12	2.955E-12	2.220E-12	1.735E-12	1.396E-12	1.148E-12	9.615E-13	
NW	4.022E-11	2.128E-11	1.363E-11	7.286E-12	4.647E-12	3.405E-12	2.614E-12	2.074E-12	1.686E-12	1.397E-12	1.175E-12	
NNW	4.214E-11	2.215E-11	1.408E-11	7.406E-12	4.663E-12	3.310E-12	2.495E-12	1.951E-12	1.570E-12	1.292E-12	1.082E-12	
N	6.007E-11	3.151E-11	1.998E-11	1.045E-11	6.546E-12	4.603E-12	3.435E-12	2.671E-12	2.141E-12	1.757E-12	1.469E-12	
NNE	1.432E-10	7.497E-11	4.743E-11	2.465E-11	1.538E-11	1.070E-11	7.920E-12	6.124E-12	4.889E-12	4.001E-12	3.338E-12	
NE	1.886E-10	9.911E-11	6.300E-11	3.311E-11	2.083E-11	1.480E-11	1.112E-11	8.694E-12	6.995E-12	5.755E-12	4.820E-12	
ENE	6.127E-11	3.212E-11	2.036E-11	1.063E-11	6.656E-12	4.671E-12	3.480E-12	2.704E-12	2.166E-12	1.776E-12	1.484E-12	
E	4.372E-11	2.291E-11	1.452E-11	7.572E-12	4.737E-12	3.317E-12	2.468E-12	1.915E-12	1.533E-12	1.257E-12	1.050E-12	
ESE	4.802E-11	2.514E-11	1.592E-11	8.287E-12	5.176E-12	3.611E-12	2.679E-12	2.075E-12	1.658E-12	1.358E-12	1.134E-12	
SE	3.762E-11	1.974E-11	1.253E-11	6.566E-12	4.122E-12	2.911E-12	2.178E-12	1.698E-12	1.363E-12	1.120E-12	9.368E-13	
SSE	8.061E-11	4.240E-11	2.697E-11	1.420E-11	8.953E-12	6.384E-12	4.811E-12	3.768E-12	3.035E-12	2.499E-12	2.095E-12	

RELATIVE DEPOSITION PER UNIT AREA (M²-2) BY DOWNWIND SECTORS

SEGMENT BOUNDARIES IN MILES

DIRECTION FROM SITE	SEGMENT BOUNDARIES IN MILES									
	0-1	1-2	2-3	3-4	4-5	5-10	10-20	20-30	30-40	40-50
S	5.500E-10	4.241E-10	2.693E-10	1.777E-10	1.220E-10	5.576E-11	1.839E-11	7.854E-12	4.509E-12	2.951E-12
SSW	4.805E-10	4.013E-10	2.606E-10	1.729E-10	1.188E-10	5.424E-11	1.783E-11	7.569E-12	4.314E-12	2.813E-12
SW	4.902E-10	3.703E-10	2.337E-10	1.549E-10	1.057E-10	4.832E-11	1.595E-11	6.825E-12	3.925E-12	2.571E-12
WSW	3.705E-10	2.628E-10	1.625E-10	1.066E-10	7.310E-11	3.344E-11	1.108E-11	4.767E-12	2.757E-12	1.812E-12
W	3.215E-10	2.206E-10	1.348E-10	8.820E-11	6.048E-11	2.768E-11	9.184E-12	3.967E-12	2.302E-12	1.512E-12
WNW	2.639E-10	1.691E-10	1.008E-10	6.555E-11	4.490E-11	2.058E-11	6.854E-12	2.983E-12	1.744E-12	1.152E-12
NW	4.408E-10	2.140E-10	1.119E-10	7.023E-11	4.761E-11	2.209E-11	7.922E-12	3.420E-12	2.086E-12	1.400E-12
NNW	3.034E-10	1.906E-10	1.129E-10	7.322E-11	5.018E-11	2.301E-11	7.671E-12	3.347E-12	1.961E-12	1.297E-12
N	3.540E-10	2.554E-10	1.588E-10	1.043E-10	7.157E-11	3.273E-11	1.083E-11	4.654E-12	2.688E-12	1.764E-12
NNE	6.086E-10	5.720E-10	3.738E-10	2.404E-10	1.707E-10	7.790E-11	2.559E-11	1.083E-11	6.167E-12	4.019E-12
NE	1.331E-09	8.402E-10	5.049E-10	3.272E-10	2.246E-10	1.029E-10	3.439E-11	1.494E-11	8.741E-12	5.776E-12
ENE	3.462E-10	2.573E-10	1.616E-10	1.063E-10	7.303E-11	3.337E-11	1.103E-11	4.724E-12	2.721E-12	1.784E-12
E	2.308E-10	1.815E-10	1.150E-10	7.587E-11	5.210E-11	2.381E-11	7.556E-12	3.356E-12	1.927E-12	1.262E-12
ESE	3.981E-10	1.956E-10	1.257E-10	8.349E-11	5.723E-11	2.613E-11	8.600E-12	3.655E-12	2.089E-12	1.414E-12
SE	2.751E-10	1.637E-10	9.993E-11	6.534E-11	4.480E-11	2.051E-11	6.806E-12	2.941E-12	1.707E-12	1.111E-12
SSE	6.059E-10	3.713E-10	2.167E-10	1.402E-10	9.597E-11	4.403E-11	1.471E-11	6.440E-12	3.787E-12	2.508E-12

RELEASE HEIGHT (METERS) 100.00
DIAMETER (METERS) 2.44
EXIT VELOCITY (METERS) 4.06

REP. WIND HEIGHT (METERS) 104.0
BUILDING HEIGHT (METERS) 0.0
BLDG-MIN-CRS-SEC-AREA (SQ-METERS) 0.0
HEAT EMISSION RATE (CAL/SEC) 0.0

AT THE RELEASE HEIGHT:
VENT RELEASE MODE WIND SPEED (METERS/SEC)

AT THE MEASURED WIND HEIGHT (104.0 METERS):
VENT RELEASE MODE WIND SPEED (METERS/SEC)

	WIND SPEED (METERS/SEC)	WIND SPEED (METERS/SEC)	WIND SPEED (METERS/SEC)
ELEVATED	LESS THAN 0.932	ELEVATED	LESS THAN 0.932
MIXED	BETWEEN 0.932 AND 4.660	MIXED	BETWEEN 0.932 AND 4.660
GROUND LEVEL	ABOVE 4.660	GROUND LEVEL	ABOVE 4.660

UNSTABLE/NEUTRAL CONDITIONS
WIND SPEED (METERS/SEC)
LESS THAN 0.932
BETWEEN 0.932 AND 4.660
ABOVE 4.660

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EXIT IMBLE ELEVATED RELEASE 7/17/79-12231/79
 SPECIFIC POINTS OF INTEREST

ID	TYPE OF LOCATION	DIRECTION	DISTANCE		X/Q			D/Q
			(MILES)	(METERS)	(SEC/CUB.METER)	(SEC/CUB.METER)	(SEC/CUB.METER)	
					UNDEPLETED	UNDEPLETED	DEPLETED	
					NO DELAY 2.260 DAY DECAY			8.000 DAY DECAY
7	C SITE BOUNDARY	S	1.04	1674.	1.7E-08	1.7E-08	1.7E-08	5.7E-10
8	C SITE BOUNDARY	SSW	0.96	1545.	1.5E-08	1.5E-08	1.5E-08	5.7E-10
9	C SITE BOUNDARY	SW	0.89	1432.	1.1E-08	1.1E-08	1.1E-08	5.2E-10
10	C SITE BOUNDARY	WSW	0.74	1191.	8.2E-09	8.2E-09	8.1E-09	3.7E-10
11	C SITE BOUNDARY	W	0.69	1110.	6.4E-09	6.4E-09	6.3E-09	3.2E-10
12	C SITE BOUNDARY	WNW	0.64	1030.	5.5E-09	5.5E-09	5.4E-09	2.8E-10
13	C SITE BOUNDARY	NW	0.70	1127.	1.2E-08	1.2E-08	1.2E-08	4.7E-10
14	C SITE BOUNDARY	NNW	0.64	1030.	6.6E-09	6.6E-09	6.5E-09	3.2E-10
15	C SITE BOUNDARY	N	0.64	1030.	6.2E-09	6.2E-09	6.1E-09	3.5E-10
16	C SITE BOUNDARY	NNE	0.64	1030.	8.4E-09	8.4E-09	8.3E-09	6.0E-10
17	C SITE BOUNDARY	NE	0.91	1465.	2.9E-08	2.9E-08	2.8E-08	1.3E-09
18	C SITE BOUNDARY	ENE	0.67	1078.	5.4E-09	5.4E-09	5.4E-09	3.4E-10
19	C SITE BOUNDARY	E	0.68	1094.	4.7E-09	4.7E-09	4.6E-09	2.3E-10
20	C SITE BOUNDARY	ESE	0.68	1094.	4.4E-09	4.4E-09	4.4E-09	2.3E-10
21	C SITE BOUNDARY	SE	0.67	1078.	5.1E-09	5.1E-09	5.0E-09	2.4E-10
22	C SITE BOUNDARY	SSE	0.74	1191.	1.2E-08	1.2E-08	1.1E-08	6.1E-10
23	C MILK COW	SSE	0.79	1271.	1.2E-08	1.2E-08	1.2E-08	6.0E-10
24	C MEAT ANIMAL	SW	1.70	2730.	1.9E-08	1.9E-08	1.9E-08	3.4E-10
25	C MEAT ANIMAL	W	1.08	1738.	1.1E-08	1.1E-08	1.1E-08	2.9E-10
26	C MEAT ANIMAL	NNE	1.10	1770.	2.4E-08	2.4E-08	2.4E-08	7.1E-10
27	C MEAT ANIMAL	SE	0.79	1271.	6.4E-09	6.4E-09	6.3E-09	2.4E-10
28	C MEAT ANIMAL	SSE	0.80	1287.	1.3E-08	1.3E-08	1.2E-08	6.0E-10
29	C RESIDENCE	S	1.40	2302.	2.2E-08	2.2E-08	2.2E-08	4.4E-10
30	C RESIDENCE	SSW	1.44	2317.	2.3E-08	2.3E-08	2.3E-08	4.3E-10
31	C RESIDENCE	SW	0.89	1432.	1.1E-08	1.1E-08	1.1E-08	5.2E-10
32	C RESIDENCE	WSW	1.00	1609.	1.2E-08	1.2E-08	1.2E-08	3.7E-10
33	C RESIDENCE	W	0.87	1400.	8.6E-09	8.6E-09	8.5E-09	3.3E-10
34	C RESIDENCE	WNW	0.79	1271.	6.8E-09	6.8E-09	6.7E-09	2.6E-10
35	C RESIDENCE	NW	0.80	1287.	1.2E-08	1.2E-08	1.2E-08	4.3E-10
36	C RESIDENCE	NNW	0.85	1360.	8.9E-09	8.9E-09	8.8E-09	3.0E-10
37	C RESIDENCE	N	0.88	1416.	1.0E-08	1.0E-08	9.9E-09	3.7E-10
38	C RESIDENCE	NNE	0.91	1465.	1.8E-08	1.8E-08	1.8E-08	7.6E-10
39	C RESIDENCE	NE	2.24	3605.	4.0E-08	4.0E-08	3.9E-08	5.8E-10
40	C RESIDENCE	E	0.94	1513.	8.6E-09	8.6E-09	8.5E-09	2.5E-10
41	C RESIDENCE	SE	0.82	1320.	6.7E-09	6.7E-09	6.6E-09	2.4E-10
42	C RESIDENCE	SSE	0.79	1271.	1.2E-08	1.2E-08	1.2E-08	6.0E-10
43	C GARDEN	S	1.57	2527.	2.2E-08	2.2E-08	2.2E-08	4.2E-10
44	C GARDEN	SSW	1.44	2317.	2.3E-08	2.3E-08	2.3E-08	4.3E-10
45	C GARDEN	SW	1.04	1674.	1.4E-08	1.4E-08	1.4E-08	4.9E-10
46	C GARDEN	WSW	1.00	1609.	1.2E-08	1.2E-08	1.2E-08	3.7E-10
47	C GARDEN	W	0.87	1400.	8.6E-09	8.6E-09	8.5E-09	3.3E-10
48	C GARDEN	WNW	0.81	1304.	7.0E-09	7.0E-09	6.9E-09	2.6E-10
49	C GARDEN	NW	5.00	8047.	7.8E-09	7.7E-09	7.5E-09	4.0E-11
50	C GARDEN	NNW	0.97	1561.	1.0E-08	1.0E-08	1.0E-08	2.9E-10
51	C GARDEN	N	0.85	1364.	9.6E-09	9.6E-09	9.5E-09	3.6E-10
52	C GARDEN	NNE	1.39	2237.	3.0E-08	3.0E-08	3.0E-08	6.2E-10
53	C GARDEN	SE	0.94	1513.	7.8E-09	7.7E-09	7.7E-09	2.4E-10

VENT AND BUILDING PARAMETERS

RELEASE HEIGHT (METERS)	100.00	REP. WIND HEIGHT (METERS)	104.0
DIAM (METERS)	2.54	BUILDING F. HT (METERS)	0.0
EXIT VELOCITY (METERS)	4.66	BLDG. MIN. C. SEC. AREA (SQ. METERS)	0.0
		HEAT EMISSION RATE (CAL/SEC)	0.0

	AT THE RELEASE POINT	WIND SPEED (METERS/SEC)	AT THE MEASURED WIND HEIGHT (METERS)	WIND SPEED (METERS/SEC)	WIND SPEED (METERS/SEC)
	VENT RELEASE MODE	LESS THAN 0.932 BETWEEN 0.932 AND 4.660 ABOVE 4.660	VENT RELEASE MODE	STABLE CONDITIONS LESS THAN 0.932 BETWEEN 0.932 AND 4.660 ABOVE 4.660	UNSTABLE/NEUTRAL CONDITIONS LESS THAN 0.932 BETWEEN 0.932 AND 4.660 ABOVE 4.660
1	ELEVATED		ELEVATED		
2	MIXED		MIXED		
3	GROUND LEVEL		GROUND LEVEL		
4					
5					
6					
7					
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ENCLOSURE 5

METEOROLOGICAL DATA FOR
DIFFUSION ANALYSIS
JULY 1 - DECEMBER 31, 1979
BRUNSWICK STEAM ELECTRIC PLANT

The wind frequency tables present the number of hourly combinations of wind direction, wind speed, and stability for the upper (100 meter) and lower (10 meter) sensor elevations.

Pertinent information from the table is as follows:

1. Stability

Percent occurrence Pasquill categories:

<u>A</u>	<u>B</u>	<u>C</u>	<u>D</u>	<u>E</u>	<u>F</u>	<u>G</u>
0.7	0.8	4.4	37.1	33.3	12.5	11.2

2. Wind Speed

Average Speed (mph)
Percent Calm
Percent Less than 3.5 mph

10 Meter

7.8
0.2
18.0

100 Meter

14.6
0.0
1.2

3. Wind Direction

Prevailing Direction
Percent Occurrence

10 Meter

SW
11.8

100 Meter

SW
13.6

4. Data Recovery

Percent Good Hours

10 Meter

99.4

100 Meter

99.7

JOINT OCCURRENCE FREQUENCIES OF WIND DIRECTION AND SPEED
FOR THE PERIOD 12:00 AM 7/1/79 TO 11:00 PM 12/31/79

STABILITY CLASS A
STABILITY CALCULATED FROM DIFF. TEMPERATURE #1+2

BRUNSWICK ON-SITE METEOROLOGICAL FACILITY

WIND DIRECTION	CALM	0.75-3.5	3.5-7.5	7.5-12.5	12.5-16.5	16.5-25.0	GREATER THAN 25.0	TOTAL	AVG. WIND SPEED
N	0.	0.	0.	1.	1.	0.	0.	2.	12.8
NNE	0.	0.	0.	6.	0.	0.	0.	6.	10.7
NE	0.	0.	1.	2.	0.	0.	0.	3.	7.8
ENE	0.	0.	1.	0.	0.	0.	0.	1.	4.1
E	0.	0.	0.	1.	0.	0.	0.	1.	8.0
ESE	0.	0.	0.	0.	0.	0.	0.	0.	0.0
SE	0.	0.	0.	1.	0.	0.	0.	1.	8.8
SSE	0.	0.	1.	0.	0.	0.	0.	1.	6.5
S	0.	0.	0.	0.	0.	0.	0.	0.	0.0
SSW	0.	0.	2.	0.	0.	0.	0.	2.	6.3
SW	0.	0.	0.	4.	1.	0.	0.	5.	11.3
WSW	0.	0.	1.	3.	1.	0.	0.	5.	9.5
W	0.	0.	0.	1.	1.	0.	0.	2.	11.3
WNW	0.	0.	0.	1.	0.	0.	0.	1.	12.0
NW	0.	0.	0.	0.	0.	0.	0.	0.	0.0
NNW	0.	0.	0.	2.	0.	0.	0.	2.	11.7
TOTAL	0.	0.	6.	22.	4.	0.	0.	32.	9.3

NUMBER OF CALMS - 0
NUMBER OF BATHOURS - 16

JOINT OCCURRENCE FREQUENCIES OF WIND DIRECTION AND SPEED
FOR THE PERIOD 12:00 AM 1/1/79 TO 11:00 PM 12/31/79

STABILITY CLASS B
STABILITY CALCULATED FROM DIFF. TEMPERATURE #1+2

BRUNSWICK ON-SITE METEOROLOGICAL FACILITY

UPPER MIND DIRECTION	CALM	0.75-3.5	3.5-7.5	7.9-12.5	SPEED CLASS(MPH)				TOTAL	AVG. WIND SPEED
					12.5-16.5	16.5-25.0	GREATER THAN 25.0			
N	0.	0.	0.	3.	0.	0.	0.	0.	3.	9.1
NNE	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.0
NE	0.	0.	0.	1.	1.	1.	0.	0.	3.	14.6
ENE	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.0
E	0.	0.	0.	0.	3.	0.	0.	0.	3.	15.1
ESE	0.	0.	0.	1.	1.	0.	0.	0.	2.	14.4
SE	0.	0.	1.	7.	2.	0.	0.	0.	10.	11.0
SSE	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.0
S	0.	0.	0.	1.	0.	0.	0.	0.	1.	11.2
SSW	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.0
SW	0.	0.	0.	0.	5.	4.	0.	0.	9.	18.9
MSW	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.0
W	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.0
WNW	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.0
NW	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.0
NNW	0.	0.	0.	0.	0.	1.	1.	1.	2.	22.5
TOTAL	0.	0.	1.	13.	12.	6.	1.	1.	33.	14.6

NUMBER OF CALMS - 0
NUMBER OF BAD HOURS - 0

JOINT OCCURRENCE FREQUENCIES OF WIND DIRECTION AND SPEED
FOR THE PERIOD 12:00 AM 7/ 1/79 TO 11:00 PM 12/31/79

STABILITY CLASS C
STABILITY CALCULATED FROM DIFF. TEMPERATURE #1+2

BRUNSWICK ON-SITE METEOROLOGICAL FACILITY

WIND DIRECTION	CALM	0.75- 3.5	3.5- 7.5	7.5-12.5	12.5-18.5	18.5-25.0	GREATER THAN 25.0	TOTAL	AVG. WIND SPEED
N	0.	0.	1.	3.	4.	3.	0.	11.	14.9
NNE	0.	0.	3.	1.	1.	0.	0.	5.	8.2
NE	0.	0.	0.	2.	4.	3.	0.	9.	15.5
ENE	0.	0.	1.	1.	3.	1.	0.	12.	11.9
E	0.	0.	2.	2.	1.	2.	1.	8.	15.0
ESE	0.	0.	1.	4.	4.	0.	0.	9.	12.6
SE	0.	0.	0.	9.	3.	0.	2.	14.	13.2
SSE	0.	0.	3.	4.	5.	0.	0.	12.	10.7
S	0.	0.	1.	3.	7.	0.	0.	11.	13.0
SSW	0.	0.	0.	5.	4.	1.	2.	12.	15.1
SW	0.	0.	0.	3.	25.	14.	0.	42.	17.3
WSW	0.	0.	1.	3.	0.	2.	0.	6.	13.3
W	0.	0.	2.	3.	0.	0.	0.	5.	8.0
WNW	0.	0.	1.	2.	1.	1.	0.	5.	12.1
NW	0.	0.	2.	3.	3.	1.	0.	9.	12.4
NNW	0.	0.	1.	5.	8.	7.	2.	23.	16.4
TOTAL	0.	0.	19.	59.	73.	35.	7.	193.	13.1

NUMBER OF CALMS - 0
NUMBER OF BAD HOURS - 0

JOINT OCCURRENCE FREQUENCIES OF WIND DIRECTION AND SPEED
FOR THE PERIOD 12:00 AM 7/1/79 TO 11:00 PM 12/31/79

STABILITY CLASS 0
STABILITY CALCULATED FROM DIFF. TEMPERATURE #1+2

BRUNSWICK ON-SITE METEOROLOGICAL FACILITY

UPPER MIND DIRECTION	CALM	SPEED CLASS(MPH)					GREATER THAN 25.0	TOTAL	AVG. MIND SPEED
		0.75-3.5	3.5-7.5	7.5-12.5	12.5-18.5	18.5-25.0			
N	0.	1.	6.	34.	80.	15.	4.	148.	14.7
NNE	0.	1.	6.	36.	87.	18.	1.	149.	14.8
NE	0.	1.	7.	22.	48.	46.	3.	127.	16.3
NNE	0.	0.	6.	27.	26.	26.	0.	85.	14.8
E	0.	0.	10.	30.	19.	10.	0.	69.	12.6
ESE	0.	2.	9.	18.	14.	6.	0.	49.	11.6
SE	0.	0.	13.	13.	7.	1.	4.	38.	11.6
SSE	0.	0.	9.	21.	19.	3.	2.	54.	12.2
S	0.	2.	11.	33.	22.	14.	2.	84.	13.0
SSW	0.	0.	17.	55.	69.	38.	37.	216.	17.3
SW	0.	0.	9.	46.	90.	76.	23.	244.	17.2
WSW	0.	1.	16.	22.	31.	14.	3.	87.	13.7
W	0.	2.	15.	26.	14.	5.	1.	63.	10.9
WNW	0.	1.	10.	30.	22.	8.	0.	71.	12.1
NW	0.	0.	11.	16.	21.	3.	0.	51.	11.8
NNW	0.	0.	14.	25.	38.	19.	5.	101.	14.6
TOTAL	0.	11.	169.	454.	615.	302.	85.	1636.	13.7

NUMBER OF CALMS - 0
NUMBER OF GAD HOURS - 0

JOINT OCCURRENCE FREQUENCIES OF WIND DIRECTION AND SPEED
FOR THE PERIOD 12:00 AM 7/1/79 TO 11:00 PM 12/31/79

STABILITY CLASS E
STABILITY CALCULATED FROM DIFF. TEMPERATURE #1+2

BRUNSWICK ON-SITE METEOROLOGICAL FACILITY

UPPER	WIND DIRECTION	CALM	0.75-3.5	3.5-7.5	7.5-12.5	12.5-16.5	16.5-25.0	GREATER THAN 25.0	TOTAL	AVG. WIND SPEED
16	N	0.	0.	6.	7.	34.	16.	1.	64.	15.8
17	NNE	0.	0.	8.	3.	68.	71.	1.	151.	17.8
18	NE	0.	0.	2.	6.	47.	35.	0.	90.	17.4
19	ENE	0.	0.	5.	11.	34.	27.	2.	79.	16.3
20	E	0.	2.	4.	23.	30.	4.	2.	65.	13.2
21	ESE	0.	0.	4.	6.	17.	10.	7.	44.	17.7
22	SE	0.	1.	5.	12.	14.	18.	12.	62.	19.3
23	SSE	0.	2.	8.	27.	14.	29.	20.	100.	18.2
24	S	0.	0.	5.	37.	22.	12.	18.	94.	17.5
25	SSW	0.	2.	6.	21.	46.	30.	30.	135.	18.2
26	SW	0.	0.	10.	31.	99.	80.	19.	239.	17.4
27	WSW	0.	0.	13.	47.	60.	16.	6.	142.	14.1
28	W	0.	0.	7.	37.	27.	10.	0.	81.	12.4
29	WNW	0.	1.	2.	14.	11.	9.	0.	43.	14.4
30	NW	0.	0.	4.	4.	14.	4.	1.	27.	14.5
31	NNW	0.	0.	3.	9.	20.	15.	1.	48.	16.2
32	TOTAL	0.	8.	92.	295.	563.	386.	120.	1464.	16.3

NUMBER OF CALMS - 0
NUMBER OF BAD HOURS - 0

JOINT OCCURRENCE FREQUENCIES OF WIND DIRECTION AND SPEED
FOR THE PERIOD 12:00 AM 7/17/79 TO 11:00 PM 12/17/79

STABILITY CLASS F
STABILITY CALCULATED FROM DIFF. TEMPERATURE #1+2

BRUNSWICK (W-SITE) METEOROLOGICAL FACILITY

WIND DIRECTION	SPEED CLASS (MPH)					TOTAL	AVG. WIND SPEED		
	CALM	0.75-3.5	3.5-7.5	7.5-12.5	12.5-18.5			18.5-25.0	GREATER THAN 25.0
N	0.	0.	2.	3.	7.	18.	0.	30.	18.1
NNE	0.	1.	4.	5.	10.	17.	0.	37.	16.1
NE	0.	1.	6.	16.	21.	10.	0.	54.	13.8
NNE	0.	0.	5.	19.	12.	1.	0.	37.	11.6
E	0.	2.	3.	17.	7.	0.	0.	29.	10.9
ESE	0.	0.	3.	2.	6.	1.	0.	12.	11.5
SE	0.	0.	2.	8.	9.	2.	0.	21.	12.6
SSE	0.	1.	4.	20.	5.	6.	0.	36.	11.7
S	0.	2.	6.	12.	3.	5.	5.	29.	11.7
SSW	0.	0.	8.	7.	2.	3.	0.	20.	10.2
SW	0.	0.	6.	15.	13.	5.	0.	39.	12.7
MSW	0.	0.	9.	30.	23.	5.	0.	67.	11.9
W	0.	1.	7.	23.	22.	4.	2.	59.	12.6
WNW	0.	0.	4.	8.	14.	9.	3.	38.	15.7
NW	0.	0.	2.	8.	11.	4.	0.	25.	14.0
NNW	0.	1.	1.	3.	8.	4.	0.	17.	14.3
TOTAL	0.	9.	12.	196.	173.	94.	6.	550.	13.1

NUMBER OF CALMS - 0
NUMBER OF BAD HOURS - 0

JULINI OCCURENCE FREQUENCIES OF WIND DIRECTION AND SPEED
FOR THE PERIOD 12:00 AM 7/ 1979 TO 11:00 PM 12/31/79

STABILITY CLASS G
STABILITY CALCULATED FROM DIFF. TEMPERATURE #1+2

BRUNSWICK ON-SITE METEOROLOGICAL FACILITY

WIND DIRECTION	CALM	0.75-3.9	3.5-7.5	7.5-12.5	12.5-18.5	18.5-25.0	GREATER THAN 25.0	TOTAL	AVG. WIND SPEED
N	0.	4.	8.	10.	8.	3.	0.	33.	10.6
NNE	0.	1.	5.	12.	17.	11.	0.	46.	14.2
NE	0.	1.	4.	17.	9.	0.	0.	31.	10.5
ENE	0.	1.	7.	6.	4.	0.	0.	18.	8.9
E	0.	2.	8.	9.	5.	0.	0.	24.	8.9
ESE	0.	0.	6.	4.	7.	0.	0.	17.	10.2
SE	0.	2.	4.	6.	2.	0.	0.	14.	8.5
SSE	0.	0.	5.	5.	5.	0.	0.	15.	10.2
S	0.	3.	14.	15.	6.	2.	0.	40.	9.3
SSW	0.	1.	12.	3.	7.	0.	0.	23.	9.5
SW	0.	4.	11.	4.	3.	0.	0.	22.	7.0
MSW	0.	0.	11.	19.	2.	0.	0.	32.	8.9
W	0.	2.	20.	21.	11.	2.	0.	56.	9.5
WNW	0.	1.	0.	18.	15.	9.	0.	42.	13.8
NW	0.	2.	4.	12.	14.	3.	0.	35.	12.0
NNW	0.	2.	9.	14.	14.	7.	0.	46.	11.8
TOTAL	0.	25.	115.	128.	37.	0.	0.	496.	10.2

NUMBER OF CALMS - 0
NUMBER OF BAD HOURS - 0

JOINT OCCURRENCE FREQUENCIES OF WIND DIRECTION AND SPEED
FOR THE PERIOD 12:00 AM 7/1/79 TO 11:00 PM 12/31/79

SUMMARY
STABILITY CALCULATED FROM DIFF. TEMPERATURE #1+2

BRUNSWICK IN-SITE METEOROLOGICAL FACILITY

WIND DIRECTION	CALM	SPEED CLASS (MPH)					GREATER THAN 25.0	TOTAL	AVG. WIND SPEED
		0.75-3.5	3.5-7.5	7.5-12.5	12.5-18.5	18.5-25.0			
N	0.	5.	23.	61.	142.	55.	5.	291.	14.7
NNE	0.	3.	26.	63.	183.	117.	2.	394.	15.9
NE	0.	3.	20.	66.	130.	95.	3.	317.	15.5
ENE	0.	1.	25.	70.	79.	55.	2.	232.	14.2
E	0.	6.	27.	92.	65.	16.	3.	192.	12.2
ESE	0.	2.	23.	35.	49.	17.	7.	133.	13.5
SE	0.	3.	25.	56.	37.	21.	18.	160.	14.5
SSE	0.	3.	30.	77.	48.	38.	22.	218.	14.6
S	0.	7.	37.	101.	60.	33.	21.	259.	13.9
SSW	0.	3.	45.	91.	128.	72.	69.	408.	16.7
SW	0.	4.	36.	103.	239.	179.	42.	800.	16.6
WSW	0.	1.	51.	124.	117.	37.	9.	339.	13.0
W	0.	5.	51.	111.	75.	21.	3.	266.	11.4
WNW	0.	3.	17.	73.	68.	36.	3.	200.	13.7
NW	0.	2.	23.	43.	63.	15.	1.	147.	12.8
NNW	0.	3.	28.	54.	48.	53.	9.	239.	14.6
U-TOTAL	0.	51.	477.	1214.	1568.	860.	219.	4402.	14.6

NUMBER OF CALMS - 0
NUMBER OF HAW HOURS - 14

JOINT OCCURRENCE FREQUENCIES OF WIND DIRECTION AND SPEED
FOR THE PERIOD 12:00 AM 7/ 1/79 TO 11:00 PM 12/31/79

STABILITY CLASS A
STABILITY CALCULATED FROM DIFF. TEMPERATURE #1+2

BRUNSWICK ON-SITE METEOROLOGICAL FACILITY

LOWER WIND DIRECTION	SPEED CLASS(MPH)					TOTAL	AVG. WIND SPEED		
	CALM	0.75-3.5	3.5-7.5	7.5-12.5	12.5-18.5			18.5-25.0	GREATER THAN 25.0
N	0.	0.	0.	1.	0.	0.	0.	1.	9.3
NNE	0.	2.	2.	1.	0.	0.	0.	5.	5.3
NE	0.	1.	2.	1.	0.	0.	0.	4.	6.5
ENE	0.	0.	1.	1.	0.	0.	0.	2.	5.8
E	0.	0.	1.	9.	0.	0.	0.	1.	6.6
ESE	0.	0.	0.	0.	0.	0.	0.	0.	0.0
SE	0.	0.	1.	0.	0.	0.	0.	1.	7.2
SSE	0.	1.	2.	0.	0.	0.	0.	3.	4.0
S	0.	0.	1.	0.	0.	0.	0.	1.	5.6
SSW	0.	0.	0.	0.	0.	0.	0.	0.	0.0
SW	0.	0.	1.	0.	1.	0.	0.	2.	10.0
WSW	0.	3.	2.	0.	0.	0.	0.	5.	3.5
W	0.	0.	0.	0.	0.	0.	0.	0.	0.0
WNW	0.	1.	0.	0.	0.	0.	0.	1.	3.1
W	0.	2.	1.	0.	0.	0.	0.	3.	2.6
NW	0.	2.	0.	1.	0.	0.	0.	3.	2.6
N	0.	2.	0.	1.	0.	0.	0.	3.	4.3
TOTAL	0.	12.	15.	5.	1.	0.	0.	32.	5.7

NUMBER OF CALMS - 0
NUMBER OF BAD HOURS - 14

JOINT OCCURRENCE FREQUENCIES OF WIND DIRECTION AND SPEED
FOR THE PERIOD 12:00 AM 7/ 1/79 TO 11:00 PM 12/31/79

STABILITY CLASS B
STABILITY CALCULATED FROM DIFF. TEMPERATURE #1+2

BRUNSWICK (M-SITE) METEOROLOGICAL FACILITY

WIND DIRECTION	CALM	0.75-3.5	3.5-7.5	7.5-12.5	12.5-19.5	19.5-25.0	GREATER THAN 25.0	TOTAL	AVG. WIND SPEED
N	0.	0.	1.	1.	0.	0.	0.	2.	7.6
NNE	0.	0.	0.	0.	0.	0.	0.	0.	0.0
NE	0.	0.	0.	2.	1.	0.	0.	3.	11.5
ENE	0.	0.	0.	0.	0.	0.	0.	0.	0.0
E	0.	0.	0.	3.	0.	0.	0.	3.	11.4
ESE	0.	0.	0.	4.	0.	0.	0.	4.	9.4
SE	0.	0.	1.	6.	0.	0.	0.	7.	8.8
SSE	0.	0.	1.	0.	0.	0.	0.	1.	6.9
S	0.	0.	0.	1.	0.	0.	0.	1.	8.9
SSW	0.	0.	0.	0.	1.	0.	0.	1.	16.6
SW	0.	0.	0.	0.	1.	1.	0.	2.	15.3
MSW	0.	0.	0.	0.	0.	0.	0.	0.	0.0
W	0.	0.	0.	0.	0.	0.	0.	0.	0.0
WNW	0.	0.	0.	0.	0.	0.	0.	0.	0.0
NW	0.	0.	0.	0.	0.	0.	0.	0.	0.0
NNW	0.	0.	1.	0.	2.	0.	0.	3.	11.9
TOTAL	0.	0.	4.	11.	1.	1.	0.	33.	10.8

NUMBER OF CALMS - 0
NUMBER OF BAD HOURS - 0

JOINT OCCURRENCE FREQUENCIES OF WIND DIRECTION AND SPEED
FOR THE PERIOD 12:00 AM 7/ 1/79 TO 11:00 PM 12/31/79

STABILITY CLASS C
STABILITY CALCULATED FROM DIFF. TEMPERATURE #1+2

GRUNSWICK ON-SITE METEOROLOGICAL FACILITY

WIND DIRECTION	CALM	SPEED CLASS(MPH)					TOTAL	AVG. WIND SPEED
		0.75-3.5	3.5-7.5	7.5-12.5	12.5-18.5	18.5-25.0		
N	0.	0.	2.	5.	1.	0.	8.	9.8
NNE	0.	0.	1.	2.	0.	0.	3.	7.9
NE	0.	0.	3.	4.	5.	0.	12.	10.4
ENE	0.	0.	1.	6.	4.	0.	11.	11.3
E	0.	0.	3.	3.	1.	0.	7.	9.3
ESE	0.	0.	0.	9.	1.	0.	10.	10.3
SE	0.	0.	1.	13.	1.	0.	15.	9.0
SSE	0.	0.	4.	7.	0.	0.	11.	8.2
S	0.	0.	2.	7.	3.	0.	12.	10.1
SSW	0.	0.	1.	7.	2.	5.	15.	14.3
SW	0.	0.	1.	12.	27.	1.	41.	13.9
WSW	0.	0.	0.	2.	0.	0.	2.	9.9
W	0.	1.	5.	0.	0.	0.	6.	5.9
WNW	0.	0.	3.	1.	0.	0.	4.	7.1
W	0.	0.	2.	7.	5.	0.	14.	10.9
NW	0.	0.	4.	9.	9.	0.	22.	11.3
TOTAL	0.	1.	33.	94.	58.	6.	193.	10.0

NUMBER OF CALMS - 0
NUMBER OF HAD HOURS - 0

JOINT OCCURRENCE FREQUENCIES OF WIND DIRECTION AND SPEED
FOR THE PERIOD 12:00 AM 7/ 1/79 TO 11:00 PM 12/31/79

STABILITY CLASS 0
STABILITY CALCULATED FROM DIFF. TEMPERATURE #1+2

BRUNSWICK ON-SITE METEOROLOGICAL FACILITY

LOWER WIND DIRECTION	CALM	0.75- 3.5	3.5- 7.5	7.5-12.5	12.5-18.5	18.5-25.0	GREATER THAN 25.0	TOTAL	AVG. WIND SPEED
N	0.	4.	38.	113.	11.	0.	0.	166.	8.8
NNE	0.	2.	29.	104.	6.	0.	0.	141.	9.0
NE	0.	2.	17.	50.	56.	0.	0.	125.	11.5
ENE	0.	0.	13.	42.	25.	0.	0.	80.	10.6
E	0.	2.	23.	44.	9.	0.	0.	78.	8.7
ESE	0.	1.	14.	27.	3.	0.	0.	45.	8.5
SE	0.	0.	29.	22.	3.	0.	0.	54.	7.5
SSE	0.	0.	20.	23.	2.	0.	0.	45.	8.0
S	0.	1.	21.	47.	18.	0.	0.	87.	10.0
SSW	0.	1.	21.	98.	68.	25.	11.	224.	13.4
SW	0.	0.	25.	82.	110.	14.	0.	234.	12.6
WSW	0.	4.	21.	29.	18.	3.	0.	75.	10.1
W	0.	5.	25.	25.	6.	0.	0.	61.	7.9
WNW	0.	1.	26.	31.	8.	0.	0.	66.	8.7
NW	0.	2.	30.	31.	2.	0.	0.	65.	7.9
NNW	0.	3.	3.	47.	13.	0.	0.	66.	8.8
TOTAL	0.	28.	274.	819.	258.	42.	11.	1631.	9.5

NUMBER OF CALMS - 0
NUMBER OF BAD HOURS - 5

JOINT OCCURRENCE FREQUENCIES OF WIND DIRECTION AND SPEED
FOR THE PERIOD 12:00 AM 7/ 1/79 TO 11:00 PM 12/31/79

STABILITY CLASS E
STABILITY CALCULATED FROM DIFF. TEMPERATURE #1+2

BRUNSWICK ON-SITE METEOROLOGICAL FACILITY

WIND DIRECTION	CALM	0.75-3.5	3.5-7.5	7.5-12.5	12.5-18.5	18.5-25.0	GREATER THAN 25.0	TOTAL	AVG. WIND SPEED
N	0.	15.	54.	34.	1.	0.	0.	104.	6.5
NNE	0.	11.	33.	75.	0.	0.	0.	139.	7.4
NE	0.	8.	24.	39.	11.	0.	0.	82.	8.4
ENE	0.	6.	37.	26.	6.	0.	0.	75.	7.5
E	0.	4.	30.	23.	1.	1.	0.	59.	7.3
ESE	0.	2.	18.	16.	9.	2.	0.	43.	8.8
SE	0.	14.	15.	27.	1.	5.	2.	64.	8.3
SSE	0.	12.	39.	23.	12.	2.	3.	91.	8.3
S	0.	11.	37.	28.	13.	3.	5.	97.	9.4
SSW	0.	11.	40.	54.	30.	1.	1.	137.	9.3
SW	0.	2.	68.	98.	29.	2.	0.	202.	8.9
WSW	0.	11.	65.	51.	8.	0.	0.	135.	7.4
W	0.	17.	60.	8.	0.	0.	0.	85.	5.1
WNW	0.	12.	25.	6.	0.	0.	0.	43.	5.1
NW	0.	11.	20.	2.	1.	0.	0.	34.	4.6
NNW	0.	10.	50.	13.	1.	0.	0.	74.	6.0
TOTAL	0.	160.	635.	523.	119.	16.	11.	1464.	7.4

NUMBER OF CALMS - 0
NUMBER OF BAD HOURS - 0

JOINT OCCURRENCE FREQUENCIES OF WIND DIRECTION AND SPEED
FOR THE PERIOD 12:00 AM 7/ 1/79 TO 11:00 PM 12/31/79

STABILITY CLASS F
STABILITY CALCULATED FROM DIFF. TEMPERATURE #1+2

BRUNSWICK ON-SITE METEOROLOGICAL FACILITY

LUBER WIND DIRECTION	CALM	SPEED CLASS(MPH)					TOTAL	AVG. WIND SPEED
		0.75- 3.5	3.5- 7.5	7.5-12.5	12.5-18.5	18.5-25.0		
N	0.	24.	45.	1.	0.	0.	70.	4.3
NNE	0.	26.	28.	3.	0.	0.	57.	4.1
NE	0.	10.	16.	0.	0.	0.	26.	3.6
ENE	0.	11.	12.	0.	0.	0.	23.	3.5
E	0.	10.	7.	1.	0.	0.	18.	3.3
ESE	0.	9.	6.	0.	0.	0.	15.	3.3
SE	0.	7.	4.	0.	0.	0.	11.	3.0
SSE	0.	8.	6.	1.	0.	0.	15.	3.6
S	0.	7.	6.	1.	1.	0.	15.	4.2
SSW	0.	5.	1.	2.	0.	0.	8.	4.3
SW	0.	9.	18.	2.	0.	0.	29.	4.9
WSW	0.	16.	47.	0.	0.	0.	63.	4.3
W	1.	35.	29.	0.	0.	0.	65.	3.6
WNW	0.	20.	23.	0.	0.	0.	43.	3.8
NW	0.	18.	23.	0.	0.	0.	41.	3.6
NNW	0.	20.	30.	0.	0.	0.	50.	4.1
TOTAL	1.	235.	301.	11.	1.	0.	549.	3.8

NUMBER OF CALMS - 1
NUMBER OF BAD HOURS - 1

JOINT OCCURRENCE FREQUENCIES OF WIND DIRECTION AND SPEED
FOR THE PERIOD 12:00 AM 7/ 1/79 TO 11:00 PM 12/31/79

STABILITY CLASS G
STABILITY CALCULATED FROM DIFF. TEMPERATURE #1+2

BRUNSWICK (W-SITE) METEOROLOGICAL FACILITY

WIND DIRECTION	CALM	0.75- 3.5	3.5- 7.5	7.5-12.5	12.5-18.5	18.5-25.0	GREATER THAN 25.0	TOTAL	AVG. WIND SPEED
N	1.	51.	28.	2.	0.	0.	0.	82.	3.4
NNE	0.	15.	5.	0.	0.	0.	0.	20.	2.1
NE	0.	13.	0.	0.	0.	0.	0.	13.	2.2
ENE	0.	7.	0.	0.	0.	0.	0.	7.	1.5
E	0.	7.	0.	0.	0.	0.	0.	7.	1.5
ESE	0.	6.	1.	0.	0.	0.	0.	7.	2.0
SE	0.	6.	0.	0.	0.	0.	0.	6.	2.0
SSE	0.	8.	0.	0.	0.	0.	0.	8.	1.1
S	0.	9.	0.	0.	0.	0.	0.	9.	2.2
SSW	0.	4.	0.	0.	0.	0.	0.	4.	2.1
SW	0.	3.	0.	0.	0.	0.	0.	3.	2.3
WSW	0.	24.	13.	0.	0.	0.	0.	37.	3.0
W	1.	29.	17.	0.	0.	0.	0.	47.	3.1
WNW	1.	38.	15.	0.	0.	0.	0.	54.	2.8
NW	1.	51.	24.	0.	0.	0.	0.	76.	3.0
NNW	2.	76.	31.	0.	0.	0.	0.	109.	3.0
TOTAL	0.	347.	145.	2.	0.	0.	0.	489.	2.4

NUMBER OF CALMS - 6
NUMBER OF BAD HOURS - 5

JOINT OCCURRENCE FREQUENCIES OF WIND DIRECTION AND SPEED
FOR THE PERIOD 12:00 AM 7/ 1/79 TO 11:00 PM 12/31/79

SUMMARY
STABILITY CALCULATED FROM DIFF. TEMPERATURE #1+2

BRUNSWICK ON-SITE METEOROLOGICAL FACILITY

WIND DIRECTION	CALM	SPEED CLASS (MPH)					TOTAL	AVG. WIND SPEED
		0.75-3.5	3.5-7.5	7.5-12.5	12.5-18.5	18.5-25.0		
N	1.	94.	108.	157.	13.	0.	433.	6.5
NNE	0.	56.	116.	185.	6.	0.	363.	7.2
NE	0.	34.	62.	96.	73.	0.	265.	9.2
ENE	0.	24.	64.	75.	35.	0.	198.	8.3
E	0.	23.	64.	74.	11.	1.	173.	7.4
ESE	0.	18.	39.	56.	9.	2.	124.	7.8
SE	0.	27.	51.	68.	5.	5.	158.	7.5
SSE	0.	29.	72.	54.	14.	2.	174.	7.4
S	0.	28.	67.	84.	35.	3.	222.	9.0
SSW	0.	21.	63.	161.	101.	31.	389.	11.7
SW	0.	17.	113.	197.	174.	18.	519.	10.8
WSW	0.	58.	148.	82.	26.	3.	317.	6.9
W	2.	87.	136.	33.	6.	0.	264.	5.0
WNW	1.	72.	86.	38.	8.	0.	205.	5.3
NW	1.	84.	100.	40.	8.	0.	233.	5.2
NNW	2.	111.	144.	70.	25.	0.	352.	5.9
TOTAL	7.	783.	1495.	1470.	549.	65.	4391.	7.8

NUMBER OF CALMS - 7
NUMBER OF BAD HOURS - 25

ATTACHMENT 3

ENVIRONMENTAL TECHNICAL SPECIFICATIONS CHANGES

July - December 31, 1979

Brunswick Steam Electric Plant

There were no changes.

ATTACHMENT 4

OCEAN OUTFALL THERMAL MONITORING DATA

July - December 31, 1979

Brunswick Steam Electric Plant

Thermal plume monitoring was conducted on August 15, 1979
and on August 17, 1979. Data collected at these times is
presented here.

Lower
 Unit 1: 8570
 Unit 2: 9270

ESEP
THERMAL PLUME MONITORING

Tide: Flooding
 Sea: Overcast
 Wind: SW 7-10
 Date: August 15, 1979
 Observers: KAM/JMS/LNS

Station 19				Station 18			
Time	Salinity	D.O.	Temp.	Time	Salinity	D.O.	Temp.
1434	3'	33.9	28.6	1445	3'	33.7	29.1
	6'	34.1	28.4		6'	33.9	28.4
	10'	34.1	28.5		10'	34.0	28.1
12'				13'			
Bottom	34.3		28.4	Bottom	34.3		27.8
Station 1				Station 2			
Time	Salinity	D.O.	Temp.	Time	Salinity	D.O.	Temp.
1452	3'	33.8	28.8	1457	3'	34.4	28.2
	6'	34.3	27.9		6'	34.7	28.1
	10'	34.4	27.9		10'	34.6	28.0
12'				16'			
Bottom	34.7		27.9	Bottom	34.8		28.0
Station 17				Station 20			
Time	Salinity	D.O.	Temp.	Time	Salinity	D.O.	Temp.
	3'	34.2	28.4		3'	34.4	28.6
	6'	34.2	28.3		6'	34.3	28.2
	10'	34.2	28.3		10'	34.3	28.2
16'				Bottom			
Bottom	34.5		28.1				
Station 21				Station 22			
Time	Salinity	D.O.	Temp.	Time	Salinity	D.O.	Temp.
1600	3'	34.5	28.4	1603	3'	34.7	28.2
	6'	34.4	28.4		6'	34.6	28.2
	10'	34.4	28.4		10'	34.6	28.2
Bottom				Bottom			
Station 23				Station 24			
Time	Salinity	D.O.	Temp.	Time	Salinity	D.O.	Temp.
1606	3'	34.5	28.1	1610	3'	34.7	28.1
	6'	34.6	28.1		6'	34.6	28.1
	10'	34.6	28.1		10'	34.6	28.1
Bottom 12'	34.7		28.1	Bottom 12'	34.8		28.1

Station	Salinity	D.O.	Temp.	Station	Salinity	D.O.	Temp.
Station 12				Station 12			
Time 1615				Time 1540			
3'	34.8		27.9	3'	34.5		28.4
6'	34.8		28.0	6'	34.6		28.4
10'	34.8		28.0	10'	34.6		28.4
Bottom 16'	34.7		28.0	22' Bottom	34.9		27.8
Station 13				Station 14			
Time 1545				Time 1549			
3'	34.3		28.5	3'	34.4		28.5
6'	34.7		28.5	6'	34.5		28.5
10'	34.7		28.4	10'	34.6		28.3
Bottom 20'	34.8		27.8	18' Bottom	34.7		27.9
Station 15				Station 16			
Time 1552				Time 1556			
3'	34.4		28.4	3'	33.7		28.7
6'	34.4		28.4	6'	34.1		28.7
10'	34.5		28.3	10'	34.1		28.3
Bottom 18'	34.6		28.0	15' Bottom	34.5		28.3
Station 3				Station 4			
Time 1515				Time 1518			
3'	34.1		28.0	3'	34.2		28.2
6'	34.6		28.1	6'	34.2		28.2
10'	34.5		28.1	10'	34.6		27.8
Bottom 15'	34.6		27.9	21' Bottom	34.7		27.8
Station 5				Station 6			
Time 1521				Time 1526			
3'	34.4		28.3	3'	34.4		28.3
6'	34.7		28.5	6'	34.6		28.3
10'	34.7		28.0	10'	34.9		28.2
Bottom 28'	34.9		27.8	28' Bottom	34.8		27.8
Station 7				Station 8			
Time 1533				Time 1658			
3'	34.5		28.6	3'	35.0		27.9
6'	34.7		28.6	6'	35.0		27.9
10'	34.7		27.9	10'	35.0		27.9
Bottom	34.8		27.8	Bottom 28'	34.9		27.8

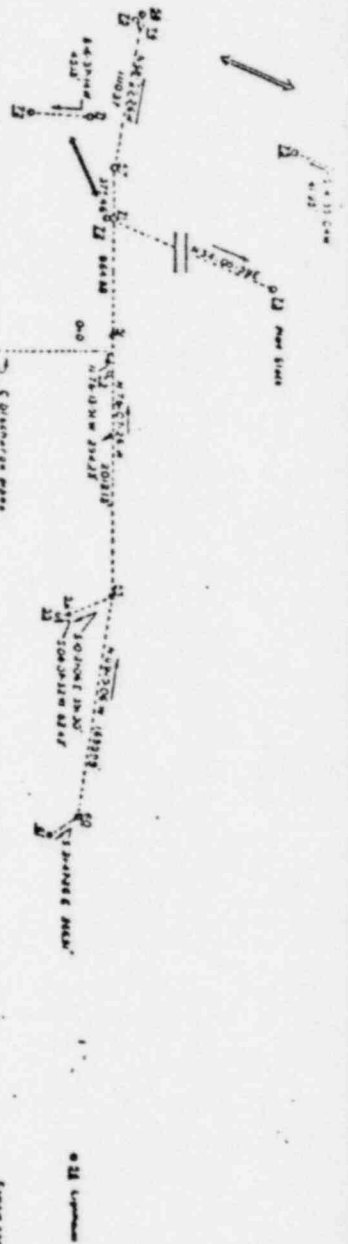
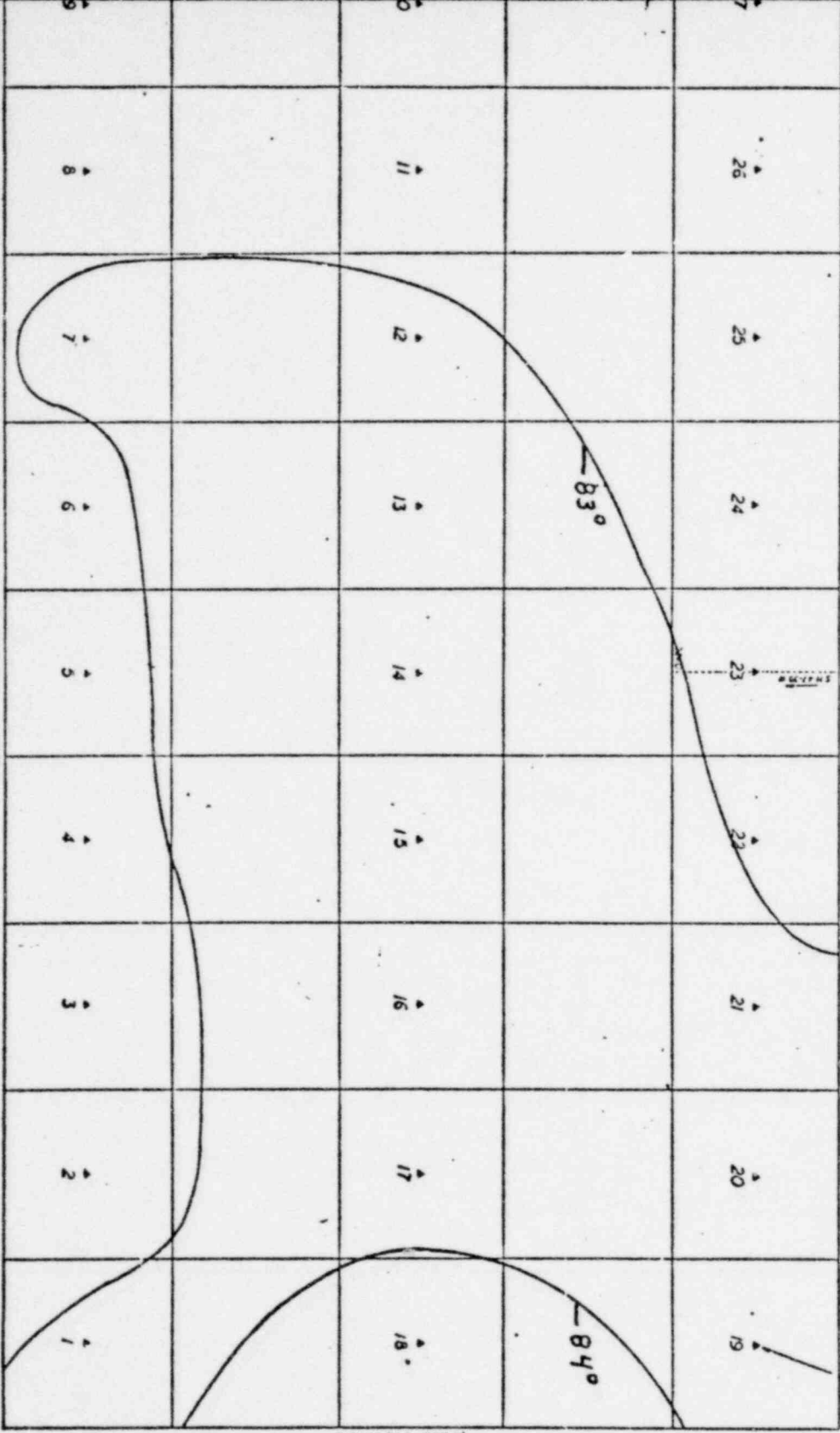
Station 9	Salinity	D.O.	Temp.	Station 10	Salinity	D.O.	Temp.
Time 1102 3'	34.9		28.1	Time 1650 3'	35.0		28.0
6'	34.9		28.1	6'	34.9		28.0
10'	34.9		28.0	10'	34.9		27.9
Bottom 28'	34.9		27.8	Bottom 25'	34.8		27.8
Station 11				Station 26			
Time 1653 3'	34.9		28.1	Time 1640 3'	34.8		27.9
6'	34.9		28.1	6'	34.8		27.9
10'	34.9		28.0	10'	34.8		28.0
Bottom 25'	34.9		27.8	Bottom 15'	34.8		28.0
Station 27				Ocean Discharge			
Time 1645 3'	34.8		28.0	Time 1710 3'	33.9		32.0
6'	34.8		28.0	6'	33.3		29.6
10'	34.8		27.9	10'	33.3		30.3
Bottom 15'	34.8		27.9	Bottom 20'	33.5		30.0

	Salinity	Temp.
River 3'	34.4	28.5
Inlet 6'	34.4	28.5
Time 1717 10'	34.1	28.4
22'		
CASWELL BEACH Bottom	34.1	28.3
27 26 25 24 23 22 21 20 19		
10 11 12 13 14 15 16 17 18		
9 8 7 6 5 4 3 2 1		

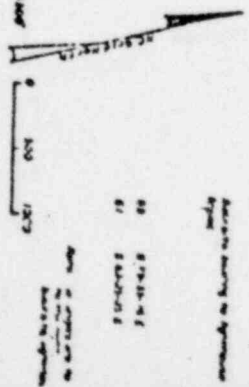
NOTES:

AUGUST 15, 1978

S 78-12-21 E 12500



CD 122 WILSON FEDERAL BLDG
AT OCEAN CITY, MD



Station	Bearing	Distance
1-2	S 78-12-21 E	12500
2-3	S 78-12-21 E	12500
3-4	S 78-12-21 E	12500
4-5	S 78-12-21 E	12500
5-6	S 78-12-21 E	12500
6-7	S 78-12-21 E	12500
7-8	S 78-12-21 E	12500
8-9	S 78-12-21 E	12500
9-10	S 78-12-21 E	12500
10-11	S 78-12-21 E	12500
11-12	S 78-12-21 E	12500
12-13	S 78-12-21 E	12500
13-14	S 78-12-21 E	12500
14-15	S 78-12-21 E	12500
15-16	S 78-12-21 E	12500
16-17	S 78-12-21 E	12500
17-18	S 78-12-21 E	12500
18-19	S 78-12-21 E	12500
19-20	S 78-12-21 E	12500
20-21	S 78-12-21 E	12500
21-22	S 78-12-21 E	12500
22-23	S 78-12-21 E	12500
23-24	S 78-12-21 E	12500
24-25	S 78-12-21 E	12500
25-26	S 78-12-21 E	12500

Power
 Unit 1: 92%
 Unit 2: 97%
 Tide: Low
 Weather: Clear
 Wind: E-8-12
 Date: 8/17/79
 Observers: JMS LNS

BSEP
THERMAL PLUME MONITORING

Station 19	Salinity	D.O.	Temp.	Station 18	Salinity	D.O.	Temp.
Time 1021				Time 1032			
3'	31.7		26.1	3'	33.5		26.5
6'	32.6		26.0	6'	33.5		26.6
10'	34.0		26.6	10'	33.4		26.6
Bottom	34.0		26.6	19'	33.6		26.6
				Bottom			
Station 1				Station 2			
Time 1035				Time 1038			
3'	34.2		26.9	3'	34.4		27.0
6'	34.3		26.7	6'	34.2		27.0
10'	34.4		26.7	10'	34.3		26.9
16'	34.5		26.8	10'	34.3		26.9
Bottom				Bottom			
Station 17				Station 20			
Time 1029				Time 1025			
3'	32.9		26.3	3'	32.6		26.3
6'	33.2		26.4	6'	33.2		26.4
10'	33.7		26.4	10'	33.2		26.5
19'	34.1		26.6	10'			
Bottom				Bottom			
Station 21				Station 22			
Time 1135				Time 1137			
3'	32.0		26.4	3'	32.8		26.5
6'	32.4		26.3	6'	33.0		26.6
8'	33.2		26.5	8'-10'	34.2		26.9
Bottom				Bottom			
Station 23				Station 24			
Time 1139				Time 1141			
3'	33.7		26.7	3'	34.8		27.1
6'	34.0		26.7	6'	34.6		27.0
10'	34.2		26.8	10'	34.4		27.0
Bottom				Bottom 11'	34.7		27.0

Station	Salinity	D.O.	Temp.	Station	Salinity	D.O.	Temp.
Station 25				Station 12			
Time 1145				Time 1115			
3'	34.6		27.0	3'	34.3		27.2
6'	34.6		27.0	6'	34.3		27.3
10'	34.7		26.8	10'	34.6		27.0
Bottom 15'	35.0		26.9	22' Bottom	35.0		26.9
Station 13				Station 14			
Time 1119				Time 1121			
3'	34.0		27.5	3'	33.6		27.5
6'	34.0		27.6	6'	34.0		27.2
10'	34.7		27.2	10'	34.5		27.0
22' Bottom	34.7		27.2	19' Bottom	34.9		27.2
Station 15				Station 16			
Time 1125				Time 1128			
3'	33.5		27.7	3'	32.5		26.6
6'	33.3		27.7	6'	33.8		26.7
10'	33.6		27.2	10'	34.0		26.8
Bottom	33.3		26.7	19' Bottom	34.4		26.7
Station 3				Station 4			
Time 1054				Time 1059			
3'	34.0		27.3	3'	34.2		27.5
6'	34.0		27.2	6'	34.2		27.4
10'	34.8		27.5	10'	34.6		27.2
Bottom	35.2		27.5	24' Bottom	35.1		27.3
Station 5				Station 6			
Time 1102				Time 1105			
3'	33.6		27.9	3'	33.9		27.7
6'	33.7		27.8	6'	34.2		27.2
10'	33.9		27.2	10'	34.7		27.3
Bottom	34.5		26.9	30' Bottom	35.1		27.3
Station 7				Station 8			
Time 1108				Time 1220			
3'	34.5		27.5	3'	33.9		27.8
6'	34.7		27.5	6'	34.0		27.7
10'	34.7		27.5	10'	34.3		27.7
Bottom 26'	35.5		27.0	Bottom	30'	35.2	27.3

Station 9	Salinity	D.O.	Temp.	Station 10	Salinity	D.O.	Temp.
Time 1226				Time 1212			
3'	34.6		27.6	3'	34.3		27.1
6'	34.5		27.4	6'	34.4		27.0
10'	34.5		27.5	10'	34.6		26.9
Bottom 28'	35.4		27.5	Bottom 25'	35.5		27.2
Station 11				Station 26			
Time 1214				Time 1201			
3'	34.2		27.4	3'	34.7		26.8
6'	34.6		27.0	6'	34.9		26.7
10'	34.7		27.1	10'	34.6		26.8
Bottom 23'	35.0		27.1	Bottom 14'	35.1		27.0
Station 27				Ocean Discharge			
Time 1206				Time 1238			
3'	34.7		26.9	3'	32.0		29.3
6'	34.9		26.8	6'	32.4		29.3
10'	34.8		26.8	10'	32.8		28.7
Bottom 15'	35.1		26.9	Bottom 16'	32.7		28.6

River	3'	30.1	26.2
Inlet	6'	30.5	26.4
Time 1246	10'	30.5	26.4
	20'		
Bottom		32.0	26.1

CASWELL BEACH

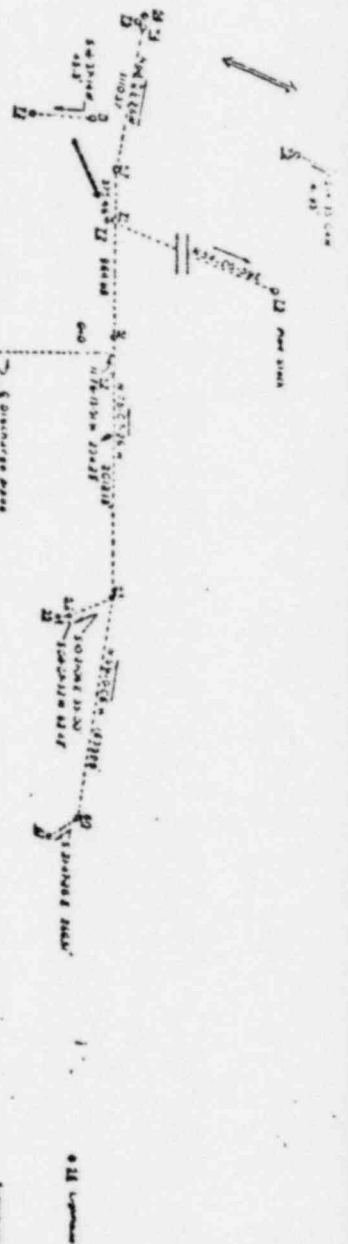
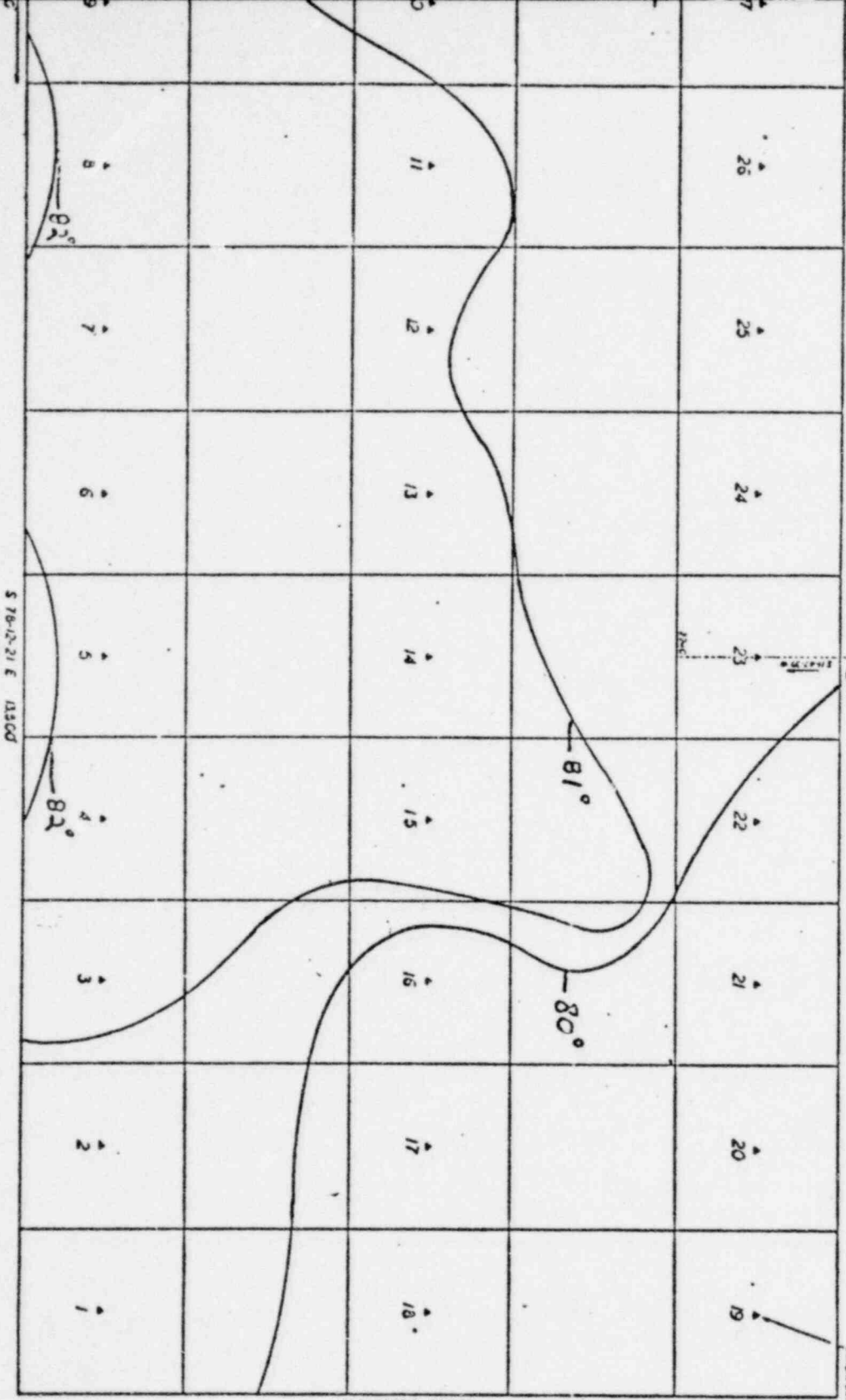
27 26 25 24 23 22 21 20 19

10 11 12 13 14 15 16 17 18

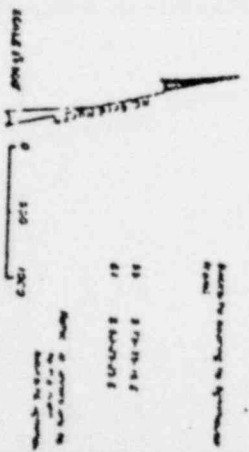
9 8 7 6 5 4 3 2 1

NOTES:

August 17, 1979



GP-5 572 K...
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Point	Station	Angle	Distance
1	8 78-12-18 E		
2	8 78-12-18 E		
3	8 78-12-18 E		
4	8 78-12-18 E		
5	8 78-12-18 E		
6	8 78-12-18 E		
7	8 78-12-18 E		
8	8 78-12-18 E		
9	8 78-12-18 E		
10	8 78-12-18 E		
11	8 78-12-18 E		
12	8 78-12-18 E		
13	8 78-12-18 E		
14	8 78-12-18 E		
15	8 78-12-18 E		
16	8 78-12-18 E		
17	8 78-12-18 E		
18	8 78-12-18 E		
19	8 78-12-18 E		
20	8 78-12-18 E		
21	8 78-12-18 E		
22	8 78-12-18 E		
23	8 78-12-18 E		
24	8 78-12-18 E		
25	8 78-12-18 E		
26	8 78-12-18 E		
27	8 78-12-18 E		

ATTACHMENT 5

MAINTENANCE DREDGING IN INTAKE CANAL

July - December 31, 1979

Brunswick Steam Electric Plant

No maintenance dredging was performed in the intake canal during the period July - December 1979.

ATTACHMENT 6

Milk Usage Survey

July - December 31, 1979

Brunswick Steam Electric Plant

In accordance with Environmental Technical Specifications 4.2.7, surveys were performed on 9-17-79 and 10-10-79 to determine the presence of an infant, child, or teen consuming the milk from the cow at Sample Station 35. These surveys indicated that no infant, child, or teen was consuming milk at this location.