

EFFLUENT AND WASTE DISPOSAL SEMI-ANNUAL REPORT

Supplemental Information

Facility TME Unit I Licensee DPR - 50 - 289

1. Regulatory Limits Environmental Technical Specifications, Appendix B to Operating License DPR - 50 - 289

- a. Fission and activation gases: Article 2.3.2
- b. Iodines: Article 2.3.2
- c. Particulates, half-lives > 8 days: Article 2.3.2
- d. Liquid effluents: Article 2.3.1

2. Maximum Permissible Concentrations

Provide the MPC's used in determining allowable release rates or concentrations.

- a. Fission and activation gases: 10 CFR Part 20, Appendix B
- b. Iodines: 10 CFR Part 20, Appendix B
- c. Particulates, half-lives > 8 days: 10 CFR Part 20, Appendix B
- d. Liquid effluents: 10 CFR Part 20, Appendix B

3. Average Energy

Provide the average energy (E) of the radionuclide mixture in releases of fission and activation gases, if applicable.
210 MeV

4. Measurements and Approximations of Total Radioactivity

Provide the methods used to measure or approximate the total radioactivity in effluents and the methods used to determine radionuclide composition.

- a. Fission and activation gases: Gamma Spectrometry, Geli Detector
- b. Iodines: Gamma Spectrometry, Geli Detector
- c. Particulates: Gamma Spectrometry, Geli Detector, low background beta counter
- d. Liquid effluents: Gamma Spectrometry, Geli Detector, liquid scintillation counter

5. Batch Releases

Provide the following information relating to batch releases of radioactive materials in liquid and gaseous effluents.

	1st quarter	2nd quarter
a. Liquid		
1. Number of batch releases:	32	35
2. Total time period for batch releases:	17372 min.	17906 min.
3. Maximum time period for a batch release:	1185 min.	1120 min.
4. Average time period for batch releases:	543 min.	512 min.
5. Minimum time period for a batch release:	145 min.	140 min.
6. Average stream flow during periods of release of effluent into a flowing stream	48912 cfs	37600 cfs
b. Gaseous		
1. Number of batch releases:	22	19
2. Total time period for batch releases:	91025 min.	72066 min.
3. Maximum time period for a batch release:	64000 min.	22400 min.
4. Average time period for batch releases:	4138 min.	3793 min.
5. Minimum time period for a batch release:	240 min.	527 min.

6. Abnormal Releases

a. Liquid

- 1. Number of releases: None
- 2. Total activity released: 0

b. Gaseous

- 1. Number of releases: None
- 2. Total activity released: 0

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TABLE 1A

EFFLUENT AND WASTE DISPOSAL SEMIANNUAL REPORT (YEAR)
GASEOUS EFFLUENTS—SUMMATION OF ALL RELEASES

	Unit	Quarter 1st	Quarter 2nd	Est. Total Error, %
A. Fission & activation gases				
1. Total release	CI	2.311E3	3.599E3	2.5 E1
2. Average release rate for period	μCi/sec	2.372E2	4.577E2	
3. Percent of Technical specification limit	%	1.774E1	1.634E1	
B. Iodines				
1. Total iodine-131	CI	7.432E-3	8.36 E-3	2.5 E1
2. Average release rate for period	μCi/sec	9.588E-4	1.275E-3	
3. Percent of technical specification limit	%	1.212E0	2.190E0	
C. Particulates				
1. Particulates with half-lives >8 days	CI	2.272E-3	6.460E-3	2.5 E1
2. Average release rate for period	μCi/sec	2.322E-4	8.308E-4	
3. Percent of technical specification limit	%	5.343E-1	1.662E0	
4. Gross alpha radioactivity	CI	5.423E-6	2.852E-6	
D. Tritium				
1. Total release	CI	4.575E1	2.490E1	2.5 E1
2. Average release rate for period	μCi/sec	5.343E0	1.202E0	
3. Percent of technical specification limit	%	N/A E	N/A E	

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TABLE 1C
EFFLUENT AND WASTE DISPOSAL SEMIANNUAL REPORT (YEAR)
GASEOUS EFFLUENTS-GROUND-LEVEL RELEASES

Nuclides Released	Unit	CONTINUOUS MODE		BATCH MODE	
		Quarter	Quarter	Quarter	Quarter
		1st	2nd	1st	2nd

1. Fission gases

krypton-85	CI	< MDA E	< MDA E	7.29 E-1	1.28 E-1
krypton-85m	CI	< MDA E	< MDA E	4.30 E-1	< MDA E
krypton-87	CI	< MDA E	< MDA E	MDA E	< MDA E
krypton-88	CI	< MDA E	< MDA E	< MDA E	< MDA E
xenon-133	CI	< MDA E	< MDA E	2.20 E-3	3.46 E-3
xenon-135	CI	< MDA E	< MDA E	1.00 E-3	1.13 E-3
xenon-135m	CI	< MDA E	< MDA E	1.74 E-3	< MDA E
xenon-138	CI	< MDA E	< MDA E	< MDA E	< MDA E
Others (specify) Ar-41	CI	< MDA E	< MDA E	2.28 E-3	7.58 E-4
Xe-131m	CI	< MDA E	< MDA E	4.04 E-3	1.45 E-3
Xe-133m	CI	< MDA E	< MDA E	9.33 E-3	1.65 E-1
unidentified	CI	< MDA E	< MDA E	---	---
Total for period	CI	< MDA E	< MDA E	2.32 E-3	3.50 E-3

2. Iodines

iodine-131	CI	3.82 E-3	5.28 E-3	3.61 E-3	3.08 E-3
iodine-133	CI	< MDA E	< MDA E	< MDA E	< MDA E
iodine-135	CI	< MDA E	< MDA E	< MDA E	< MDA E
Total for period	CI	3.82 E-3	5.28 E-3	3.61 E-3	3.08 E-3

3. Particulates

strontium-89	CI	2.13 E-6	< MDA E	1.88 E-6	MDA E
strontium-90	CI	< MDA E	< MDA E	< MDA E	MDA E
cesium-134	CI	< MDA E	7.02 E-4	< MDA E	4.09 E-4
cesium-137	CI	< MDA E	1.57 E-3	< MDA E	9.13 E-4
barium-lanthanum-140	CI	< MDA E	< MDA E	< MDA E	MDA E
Others (specify) Co-58	CI	1.17 E-3	5.28 E-3	1.10 E-3	9.41 E-4
Co-60	CI	< MDA E	1.08 E-4	MDA E	1.16 E-4
Mn-54	CI	< MDA E	< MDA E	< MDA E	< MDA E
unidentified	CI	---	---	---	---
	SA 24	< MDA	< MDA	< MDA	< MDA

MDA's (μCi/ml)

Gase		Particulates		Charcoal
Kr-85	3.75 E-5	Ca - 134	4.99 E-13	I-131 3.32 E-13
		Ca - 137	6.04 E-13	I-133 2.70 E-13
Xe-133	4.27 E-7	SA - 140	1.31 E-12	I-135 4.07 E-12
		LA - 140	5.28 E-13	
Others	<1.00 E-5	Sr - 89	2.31 E-14	
		Sr - 90	1.02 E-14	
		Co - 58	3.27 E-13	
		Co - 60	4.97 E-13	
		MA - 24	2.28 E-13	
		Mn - 54	3.48 E-13	
			1.21-16	

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TABLE 2A
EFFLUENT AND WASTE DISPOSAL SEMIANNUAL REPORT (YEAR)
LIQUID EFFLUENTS—SUMMATION OF ALL RELEASES

	Unit	Quarter 1-3	Quarter 4-6	Est. Total Error, %
A. Fission and activation products				
1. Total release (not including tritium, gases, alpha)	Ci	2.96 E-2	2.51 E-2	2.5 E-1
2. Average diluted concentration during period	μCi/ml	8.89 E-9	5.60 E-9	
3. Percent of applicable limit	%	2.96 E-1	2.51 E-1	
B. Tritium				
1. Total release	Ci	3.31 E-1	3.58 E-1	2.5 E-1
2. Average diluted concentration during period	μCi/ml	1.15 E-5	7.98 E-6	
3. Percent of applicable limit	%	N/A E	N/A E	
C. Dissolved and entrained gases				
1. Total release	Ci	1.96 E-2	1.47 E-2	2.5 E-1
2. Average diluted concentration during period	μCi/ml	5.90 E-9	3.90 E-9	
3. Percent of applicable limit	%	N/A E	N/A E	
D. Gross alpha radioactivity				
1. Total release	Ci	1.27 E-6	1.27 E-6	2.5 E-1
E. Volume of waste released (prior to dilution)				
	liters	7.31 E5	1.04 E6	1.0 E1
F. Volume of dilution water used during period				
	liters	3.33 E9	4.49 E9	1.0 E1

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TABLE 2B
EFFLUENT AND WASTE DISPOSAL SEMIANNUAL REPORT (YEAR)
LIQUID EFFLUENTS

Nuclides Released	Unit	CONTINUOUS MODE		BATCH MODE	
		Quarter 1977	Quarter 1978	Quarter 1977	Quarter 1978
strontium-89	CI	<MDA E	<MDA E	9.01 E-3	6.70 E-3
strontium-90	CI	<MDA E	<MDA E	8.25 E-3	3.60 E-3
cesium-134	CI	<MDA E	<MDA E	4.24 E-3	3.25 E-3
cesium-137	CI	<MDA E	<MDA E	4.32 E-3	3.27 E-3
iodine-131	CI	<MDA E	<MDA E	1.60 E-4	5.95 E-4
cobalt-58	CI	<MDA E	<MDA E	1.52 E-2	5.00 E-3
cobalt-60	CI	<MDA E	<MDA E	1.58 E-3	3.31 E-4
iron-59	CI	<MDA E	<MDA E	1.18 E-4	<MDA E
zinc-65	CI	<MDA E	<MDA E	1.17 E-4	<MDA E
manganese-54	CI	<MDA E	<MDA E	6.76 E-4	2.21 E-4
chromium-51	CI	<MDA E	<MDA E	2.48 E-3	<MDA E
zirconium-niobium-93	CI	<MDA E	<MDA E	4.74 E-4	9.70 E-5
molybdenum-99	CI	<MDA E	<MDA E	<MDA E	<MDA E
technetium-99m	CI	<MDA E	<MDA E	<MDA E	<MDA E
barium-lanthanum-140	CI	<MDA E	<MDA E	<MDA E	<MDA E
cerium-141	CI	<MDA E	<MDA E	<MDA E	<MDA E
Other (specify) Zr - 97	CI	<MDA E	<MDA E	<MDA E	2.20 E-5
Cs - 136	CI	<MDA E	<MDA E	1.21 E-5	6.55 E-5
Ag - 110m	CI	<MDA E	<MDA E	4.27 E-5	<MDA E
Na - 24	CI	<MDA E	<MDA E	1.18 E-4	3.32 E-5
I - 133	CI	<MDA E	<MDA E	6.30 E-5	<MDA E
unidentified	CI	<MDA E	<MDA E	---	---
Total for period (above)	CI	<MDA E	<MDA E	2.60 E-2	2.91 E-2
xenon-133	CI	<MDA E	<MDA E	1.21 E-2	1.44 E-2
xenon-135	CI	<MDA E	<MDA E	3.39 E-4	1.62 E-4
I - 132		<MDA	<MDA	<MDA	9.52 E-4
I - 135		<MDA	<MDA	<MDA	7.11 E-4

MDA's (μCi/ml)

Cr - 51 1.94 E-6
I - 131 1.90 E-7
I - 133 2.64 E-7
Ag - 110m 1.50 E-7
Mo - 99 1.85 E-7
Zr-Nb-95 2.29 E-7
Cs - 134 1.34 E-7
Co - 58 1.34 E-7
Cs - 137 1.20 E-7

MDA's (μCi/ml)

Mn - 54 1.67 E-7
Fe - 59 2.92 E-7
Cs - 136 1.36 E-7
Zn - 65 3.31 E-7
Co - 60 2.35 E-7
Ba-La-140 5.61 E-7
Ce - 141 3.68 E-7
Na - 24 1.49 E-7
I-132 1.49 E-7
I - 135 7.14 E-7

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TABLE 3
EFFLUENT AND WASTE DISPOSAL SEMIANNUAL REPORT (YEAR)
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, evaporator bottoms, etc.	m ³ Ci	2.35 E1 3.35 E1	2.5 E1
b. Dry compressible waste, contaminated equip, etc.	m ³ Ci	4.14 E1 9.13 E1	2.5 E1
c. Irradiated components, control rods, etc.	m ³ Ci	----- E ----- E	----- E
d. Other (describe)	m ³ Ci	----- E ----- E	----- E

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

a. Mn - 54	%	5.00 E0
Co - 58	%	1.50 E1
Co - 60	%	9.00 E0
b. Cs - 134	%	2.50 E1
Cs - 137	%	1.00 E1
	%	E
d.	%	E
	%	E
d.	%	E
	%	E
	%	E

Applies to 1A &
1B above

3. Solid Waste Disposition

Number of Shipments	Mode of Transportation	Destination
5	Motor Truck	Barnwell, S.C.
5	Motor Truck	Sheffield, Ill.

B. IRRADIATED FUEL SHIPMENTS (Disposition)

Number of Shipments	Mode of Transportation	Destination
None		

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JOINT FREQUENCY TABLES OF WIND SPEED AND DIRECTION
FOR TEMPERATURE DIFFERENCE (DEG F/100FT) LESS THAN OR EQUAL TO -1.0
SITE THREE MILE ISLAND
PERIOD OF RECORD FROM 77010101 TO 77033124
SPEED AND DIRECTION FROM 100FT LEVEL
TEMPERATURE DIFFERENCE BETWEEN 150FT AND 33FT

REQUEST NUMBER 707-30

WIND DIRECTION

SPEED(MPH)	N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	TOTAL	PERCENT	GEOM. MEAN SPD(MPH)
CALM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.0	0.00
CALM+ = 3.5	1	1	0	1	0	0	1	0	0	0	0	1	0	0	1	5	11	5.4	1.91
3.6 - 7.5	1	0	0	1	0	0	2	0	0	0	0	1	1	4	6	10	26	12.7	4.82
7.6 - 12.5	1	0	0	0	0	0	0	0	0	3	1	4	19	24	19	11	82	40.2	10.34
12.6 - 18.5	0	0	0	0	0	0	0	0	0	0	0	3	11	21	27	6	68	33.3	14.52
18.6 - 24.5	0	0	0	0	0	0	0	0	0	0	0	0	0	3	8	2	13	6.4	20.1
24.6 - 32.5	0	0	0	0	0	0	0	0	0	0	0	0	0	1	3	0	4	2.0	26.31
32.6+	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.0	0.00
TOTAL	3	1	0	2	0	0	3	0	0	3	1	9	31	53	64	34	204	0.0	8.31
PERCENT	1.5	.5	0.0	1.0	0.0	0.0	1.5	0.0	0.0	1.5	.5	4.4	15.2	26.0	31.4	16.7	100.0		
AV SPD	5.2	1.2	0.0	4.4	0.0	0.0	3.0	0.0	0.0	8.6	9.2	10.3	12.2	12.8	13.6	6.9			
AVERAGE SPEED FOR THIS TABLE EQUALS 11.7																			
HOURS IN ABOVE TABLE WITH VARIABLE DIRECTION = 3																			

JOINT FREQUENCY TABLES OF WIND SPEED AND DIRECTION
FOR TEMPERATURE DIFFERENCE (DEG F/100FT) GREATER THAN -1.0 BUT LESS THAN OR EQUAL TO -.9
SITE THREE MILE ISLAND
PERIOD OF RECORD FROM 77010101 TO 77033124
SPEED AND DIRECTION FROM 100FT LEVEL
TEMPERATURE DIFFERENCE BETWEEN 150FT AND 33FT

REQUEST NUMBER 707-39

WIND DIRECTION

SPEED(MPH)	N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	TOTAL	PERCENT	GEOM. MEAN SPD(MPH)
CALM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.0	0.00
CALM+ = 3.5	1	0	0	0	0	0	0	0	0	0	0	1	0	0	2	0	4	6.8	2.76
3.6 - 7.5	1	0	0	1	0	0	1	0	0	2	1	0	1	2	2	3	14	23.2	5.33
7.6 - 12.5	0	0	0	0	0	0	0	0	0	1	1	1	6	4	1	3	17	28.2	9.11
12.6 - 18.5	0	0	0	0	0	0	0	0	0	0	0	1	0	4	6	3	14	23.2	15.14
18.6 - 24.5	0	0	0	0	0	0	1	0	0	0	0	0	0	2	3	2	8	13.6	20.51
24.6 - 32.5	0	0	0	0	0	0	0	0	0	0	0	0	1	0	1	0	2	3.4	27.79
32.6+	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.0	0.00
TOTAL	2	0	0	1	0	0	2	0	0	3	2	3	6	12	15	11	56	0.0	8.06
PERCENT	3.4	0.0	0.0	1.7	0.0	0.0	3.4	0.0	0.0	5.1	3.4	5.1	13.6	20.3	25.4	16.6	100.0		
AV SPD	4.7	0.0	0.0	5.8	0.0	0.0	12.1	0.0	0.0	5.7	6.5	6.4	10.6	12.8	14.2	12.3			
AVERAGE SPEED FOR THIS TABLE EQUALS 11.5																			
HOURS IN ABOVE TABLE WITH VARIABLE DIRECTION = 0																			

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JOINT FREQUENCY TABLES OF WIND SPEED AND DIRECTION
 FOR TEMPERATURE DIFFERENCE (DEG F/100FT) GREATER THAN -0.9 BUT LESS THAN OR EQUAL TO -0.8
 SITE THREE MILE ISLAND
 PERIOD OF RECORD FROM 77010101 TO 77033124
 SPEED AND DIRECTION FROM 100FT LEVEL
 TEMPERATURE DIFFERENCE BETWEEN 150FT AND 33FT

REQUEST NUMBER 707-39

WIND DIRECTION

SPEED (MPH)	N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	TOTAL	PERCENT	GFD MEAN SPD (MPH)
CALM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.0	0.00
CALM+ = 3.5	0	0	0	0	1	0	1	0	1	1	1	0	0	0	0	0	5	10.2	2.00
3.6 - 7.5	0	0	0	1	1	1	0	1	0	3	1	0	1	1	0	1	11	22.4	5.70
7.6 - 12.5	1	0	0	0	0	0	0	0	0	2	0	0	2	1	4	0	10	20.4	10.75
12.6 - 18.5	0	0	0	0	0	0	0	0	0	0	0	0	2	3	4	1	10	20.4	15.80
18.6 - 24.5	0	0	0	0	0	0	0	0	0	0	0	0	0	1	9	0	10	20.4	21.0
24.6 - 32.5	0	0	0	0	0	0	0	0	0	0	0	0	0	1	2	0	3	6.1	27.0
32.6+	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.0	0.00
TOTAL	1	0	0	1	2	1	1	1	1	6	2	0	5	7	10	2	45	0.0	7.57
PERCENT	2.0	0.0	0.0	2.0	4.1	2.0	2.0	2.0	2.0	12.2	4.1	0.0	10.2	14.3	38.8	4.1	100.0		
AV SPD	11.3	0.0	0.0	0.4	5.4	5.8	2.3	5.0	1.1	7.0	3.9	0.0	11.3	15.6	18.8	12.4			
AVERAGE SPEED FOR THIS TABLE EQUALS	13.1																		
HOURS IN ABOVE TABLE WITH VARIABLE DIRECTION =	0																		

JOINT FREQUENCY TABLES OF WIND SPEED AND DIRECTION
 FOR TEMPERATURE DIFFERENCE (DEG F/100FT) GREATER THAN -0.8 BUT LESS THAN OR EQUAL TO -0.3
 SITE THREE MILE ISLAND
 PERIOD OF RECORD FROM 77010101 TO 77033124
 SPEED AND DIRECTION FROM 100FT LEVEL
 TEMPERATURE DIFFERENCE BETWEEN 150FT AND 33FT

REQUEST NUMBER 707-39

WIND DIRECTION

SPEED (MPH)	N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	TOTAL	PERCENT	GFD MEAN SPD (MPH)
CALM	0	0	2	0	1	0	0	0	0	0	0	0	0	0	0	0	3	.5	0.00
CALM+ = 3.5	8	3	3	3	9	9	3	6	3	3	6	1	1	1	5	5	49	10.0	2.20
3.6 - 7.5	5	1	1	3	12	22	12	14	16	13	3	4	3	8	10	4	131	20.7	5.45
7.6 - 12.5	0	0	0	0	8	21	5	9	6	6	6	6	16	45	66	12	206	32.5	9.80
12.6 - 18.5	1	0	0	0	0	1	3	0	1	3	4	4	18	41	53	13	142	22.4	14.82
18.6 - 24.5	0	0	0	0	0	0	0	0	0	1	0	0	5	22	31	2	61	9.6	21.30
24.6 - 32.5	0	0	0	0	0	0	0	0	0	0	0	0	2	9	9	0	20	3.2	28.36
32.6+	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	1	.2	41.20
TOTAL	14	4	6	6	30	53	23	29	26	26	19	15	45	127	174	30	633	100.0	6.40
PERCENT	2.2	0.6	0.9	0.9	4.7	8.4	3.6	4.6	4.1	4.1	3.0	2.4	7.1	20.1	27.5	5.7	100.0		
AV SPD	4.9	3.4	2.1	3.8	5.4	7.0	6.7	6.2	6.3	7.5	7.7	9.4	13.5	14.7	14.2	11.3			
AVERAGE SPEED FOR THIS TABLE EQUALS	11.0																		
HOURS IN ABOVE TABLE WITH VARIABLE DIRECTION =	10																		

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JOINT FREQUENCY TABLES OF WIND SPEED AND DIRECTION
FOR TEMPERATURE DIFFERENCE (DEG F/100FT) GREATER THAN .3 BUT LESS THAN OR EQUAL TO .8
SITE THREE MILE ISLAND
PERIOD OF RECORD FROM 77010101 TO 77033124
SPEED AND DIRECTION FROM 100FT LEVEL
TEMPERATURE DIFFERENCE BETWEEN 150FT AND 33FT

REQUEST NUMBER 707-39

WIND DIRECTION

SPEED (MPH)	N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	TOTAL	PERCENT	GEO MEAN SPD (MPH)
CALM	0	2	1	0	1	0	0	0	0	0	0	0	1	0	1	0	6	.8	.50
CALM+ = 3.5	12	6	8	5	9	11	10	5	5	7	9	5	11	2	5	6	120	16.1	1.95
3.6 - 7.5	11	2	2	3	21	15	19	17	13	16	12	22	59	41	19	14	286	38.3	5.52
7.6 - 12.5	1	0	0	0	4	0	14	3	8	18	10	14	37	65	43	15	234	31.0	8.53
12.6 - 18.5	1	0	0	0	0	0	0	0	1	3	0	1	12	20	34	6	78	10.4	14.86
18.6 - 24.5	0	0	0	0	0	0	0	0	0	0	0	0	3	6	7	2	18	2.4	20.45
24.6 - 32.5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	1	.1	26.10
32.6+	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.0	0.00
TOTAL	25	12	11	8	35	32	43	25	27	44	31	42	123	134	110	45	747	0.0	4.79
PERCENT	3.3	1.6	1.5	1.1	4.7	4.3	5.8	3.3	3.6	5.9	4.1	5.6	16.5	17.9	14.7	6.0	100.0		
AV SPD	4.3	2.4	2.4	3.1	5.1	5.1	6.3	4.9	7.0	7.4	6.1	6.9	7.8	10.1	11.1	8.5			

AVERAGE SPEED FOR THIS TABLE EQUALS 7.8
HOURS IN ABOVE TABLE WITH VARIABLE DIRECTION = 8

JOINT FREQUENCY TABLES OF WIND SPEED AND DIRECTION
FOR TEMPERATURE DIFFERENCE (DEG F/100FT) GREATER THAN .8 BUT LESS THAN OR EQUAL TO 2.2
SITE THREE MILE ISLAND
PERIOD OF RECORD FROM 77010101 TO 77033124
SPEED AND DIRECTION FROM 100FT LEVEL
TEMPERATURE DIFFERENCE BETWEEN 150FT AND 33FT

REQUEST NUMBER 707-39

WIND DIRECTION

SPEED (MPH)	N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	TOTAL	PERCENT	GEO MEAN SPD (MPH)
CALM	0	0	0	0	2	1	0	0	0	0	0	0	0	0	0	0	3	1.6	.50
CALM+ = 3.5	9	4	3	5	3	8	4	4	2	5	5	3	13	5	4	6	83	43.7	1.93
3.6 - 7.5	2	0	0	1	5	0	1	3	5	9	8	8	17	12	6	8	85	44.7	5.23
7.6 - 12.5	0	0	0	0	0	3	0	0	1	2	1	3	2	1	1	4	18	9.5	9.04
12.6 - 18.5	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	1	.5	12.40
18.6 - 24.5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.0	0.00
24.6 - 32.5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.0	0.00
32.6+	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.0	0.00
TOTAL	11	4	3	6	10	12	5	7	8	16	14	14	32	19	11	18	150	0.0	2.62
PERCENT	5.8	2.1	1.6	3.2	5.3	6.3	2.6	3.7	4.2	8.4	7.4	7.4	16.8	10.0	5.8	9.5	100.0		
AV SPD	2.7	1.9	2.2	2.5	3.8	3.3	2.4	3.2	5.1	4.9	5.0	5.3	4.4	5.5	4.2	5.6			

AVERAGE SPEED FOR THIS TABLE EQUALS 4.4
HOURS IN ABOVE TABLE WITH VARIABLE DIRECTION = 4

POOR ORIGINAL

Attachment 1 (continued)

4 of 5

JOINT FREQUENCY TABLES OF WIND SPEED AND DIRECTION
 FOR TEMPERATURE DIFFERENCE (DEG F/100FT) GREATER THAN 2.2
 SITE THREE MILE ISLAND
 PERIOD OF RECORD FROM 77010101 TO 77033124
 SPEED AND DIRECTION FROM 100FT LEVEL
 TEMPERATURE DIFFERENCE BETWEEN 100FT AND 33FT

REQUEST NUMBER 707-39

WIND DIRECTION

SPEED(MPH)	N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	TOTAL	PERCENT	GFD MEAN SPD(MPH)
CALM	0	0	1	0	0	2	1	0	0	0	1	1	0	1	0	0	7	3.3	.50
CALM+ - 3.5	8	4	6	9	19	15	8	9	6	6	9	7	9	5	10	8	138	65.4	1.85
3.6 - 7.5	12	2	2	1	0	3	1	2	6	2	7	3	8	2	4	7	62	29.4	4.61
7.6 - 12.5	1	0	0	0	0	0	0	0	0	0	0	1	0	0	0	1	3	1.4	8.61
12.6 - 18.5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	1	.5	12.81
18.6 - 24.5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.0	0.00
24.6 - 32.5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.0	0.00
32.6+	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.0	0.00
TOTAL	21	9	9	10	19	20	10	11	12	8	17	12	17	8	14	17	211	0.0	2.00
PERCENT	10.0	2.8	4.3	4.7	9.0	9.5	4.7	5.2	5.7	3.8	8.1	5.7	6.1	3.8	6.6	8.1	100.0		
AV SPD	4.2	3.4	2.3	2.4	2.1	2.5	2.2	2.2	3.4	3.0	3.1	3.5	3.5	2.7	2.8	4.4			
AVERAGE SPEED FOR THIS TABLE EQUALS 3.1																			
HOURS IN ABOVE TABLE WITH VARIABLE DIRECTION = 9																			

POOR ORIGINAL

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SPEED	S U M M A R Y T A B L E																TOTAL	PERCENT
	N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW		
CALM	0	2	4	0	4	3	1	0	0	0	1	1	1	1	1	0	19	.9
CALM+ - 3.5	39	20	20	23	41	43	27	24	17	22	30	14	34	13	27	32	430	20.5
3.6 - 7.5	32	5	5	11	39	41	36	37	40	45	32	34	90	70	47	47	615	24.6
7.6 - 12.5	4	0	0	0	12	30	19	12	15	32	19	29	42	140	134	46	574	27.4
12.6 - 18.5	2	0	0	0	0	1	3	0	2	6	4	9	43	90	124	30	314	15.0
18.6 - 24.5	0	0	0	0	0	0	1	0	0	1	0	0	8	34	58	8	110	5.3
24.6 - 32.5	0	0	0	0	0	0	0	0	0	0	0	0	3	11	16	0	30	1.4
32.6+	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	1	.0
TOTAL	77	27	29	34	96	118	87	73	74	106	86	95	261	360	407	163	2093	100.0
PERCENT	3.7	1.3	1.4	1.6	4.6	5.6	4.2	3.5	3.5	5.1	4.1	4.5	12.5	17.2	19.4	7.2	100.0	

POOR ORIGINAL

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JOINT FREQUENCY TABLES OF WIND SPEED AND DIRECTION
FOR TEMPERATURE DIFFERENCE (DEG F/100FT) LESS THAN OR EQUAL TO -1.0
SITE THREE MILE ISLAND
PERIOD OF RECORD FROM 77040101 TO 77063024
SPEED AND DIRECTION FROM 100FT LEVEL
TEMPERATURE DIFFERENCE BETWEEN 150FT AND 33FT

REQUEST NUMBER 707-40

WIND DIRECTION

SPEED(MPH)	N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	TOTAL	PERCENT	GED MEAN SPD(MPH)
CALM	0	0	0	0	0	0	1	0	0	1	0	0	0	0	0	0	2	.5	.50
CALM+ - 3.5	2	3	1	0	1	1	2	2	0	0	1	3	0	2	3	1	22	5.6	2.60
3.6 - 7.5	20	7	2	3	1	3	4	12	4	6	9	7	12	4	11	20	125	32.9	5.87
7.6 - 12.5	18	7	5	2	0	2	4	7	4	9	16	0	10	7	24	24	145	38.2	9.64
12.6 - 18.5	12	3	1	0	0	1	2	5	1	2	9	2	4	4	9	10	65	17.1	14.44
18.6 - 24.5	2	1	0	0	0	0	0	0	0	0	0	0	0	0	6	1	10	2.6	19.74
24.6 - 32.5	5	1	0	0	0	0	0	0	0	0	0	0	0	0	0	3	9	2.4	27.50
32.6+	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	2	.5	33.50
TOTAL	60	22	9	5	2	7	13	26	9	18	35	18	26	17	53	60	340	100.0	6.84
PERCENT	15.8	5.8	2.4	1.3	.5	1.8	3.4	6.8	2.4	4.7	9.2	4.7	6.6	4.5	13.9	15.8	100.0		
AV SPD	11.4	9.5	8.6	7.9	3.4	7.3	7.5	8.5	8.7	8.5	9.7	7.1	8.1	8.7	10.9	10.8			

AVERAGE SPEED FOR THIS TABLE EQUALS 9.7
HOURS IN ABOVE TABLE WITH VARIABLE DIRECTION = 10

JOINT FREQUENCY TABLES OF WIND SPEED AND DIRECTION
FOR TEMPERATURE DIFFERENCE (DEG F/100FT) GREATER THAN -1.0 BUT LESS THAN OR EQUAL TO -.9
SITE THREE MILE ISLAND
PERIOD OF RECORD FROM 77040101 TO 77063024
SPEED AND DIRECTION FROM 100FT LEVEL
TEMPERATURE DIFFERENCE BETWEEN 150FT AND 33FT

REQUEST NUMBER 707-40

WIND DIRECTION

SPEED(MPH)	N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	TOTAL	PERCENT	GED MEAN SPD(MPH)
CALM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.0	0.00
CALM+ - 3.5	0	1	0	0	0	0	1	0	2	0	0	0	0	0	0	1	5	7.4	2.53
3.6 - 7.5	1	2	2	0	0	0	3	2	3	2	1	3	1	3	0	2	25	36.8	5.07
7.6 - 12.5	2	0	0	0	1	0	2	1	0	2	3	2	0	0	3	5	21	30.9	9.49
12.6 - 18.5	2	2	0	0	0	0	1	0	0	0	0	0	3	2	2	1	13	19.1	14.55
18.6 - 24.5	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2	3	4.4	10.69
24.6 - 32.5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	1	1.5	24.80
32.6+	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.0	0.00
TOTAL	6	5	2	0	1	0	7	3	5	4	4	5	4	5	5	12	68	0.0	6.66
PERCENT	8.8	7.4	2.9	0.0	1.5	0.0	10.3	4.4	7.4	5.8	5.9	7.4	5.9	7.4	7.4	17.6	100.0		
AV SPD	13.1	7.9	5.6	0.0	7.8	0.0	7.1	7.2	4.4	7.5	9.3	6.3	11.4	9.0	12.2	11.8			

AVERAGE SPEED FOR THIS TABLE EQUALS 9.1
HOURS IN ABOVE TABLE WITH VARIABLE DIRECTION = 0

POOR ORIGINAL

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Attachment 3 (continued)

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JOINT FREQUENCY TABLES OF WIND SPEED AND DIRECTION
 FOR TEMPERATURE DIFFERENCE (DEG F/100FT) GREATER THAN -.9 BUT LESS THAN OR EQUAL TO -.7
 SITE THREE MILE ISLAND
 PERIOD OF RECORD FROM 77040101 TO 77063024
 SPEED AND DIRECTION FROM 100FT LEVEL
 TEMPERATURE DIFFERENCE BETWEEN 150FT AND 33FT

REQUEST NUMBER 707-40

SPEED(MPH)	WIND DIRECTION																TOTAL	PERCENT	GEO MEAN SPD(MPH)
	N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW			
CALM	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	1	2.4	.50
CALM+ - 3.5	0	0	0	0	0	1	0	0	1	0	0	0	1	0	0	0	3	7.1	2.65
3.6 - 7.5	1	0	0	0	0	2	0	2	1	1	1	2	2	1	1	1	15	35.7	5.44
7.6 - 12.5	2	2	1	0	0	0	0	0	1	2	2	0	0	0	3	2	15	35.7	10.43
12.6 - 18.5	2	0	0	0	0	0	0	0	0	1	2	0	0	0	0	1	1	2.4	18.60
18.6 - 24.5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.0	0.00
24.6 - 32.5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.0	0.00
32.6+	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.0	0.00
TOTAL	5	2	1	0	0	3	0	2	4	4	5	2	3	1	4	5	42	0.0	5.38
PERCENT	11.9	4.8	2.4	0.0	0.0	7.1	0.0	4.8	9.5	9.5	11.9	4.8	7.1	2.4	9.5	14.3	100.0		
AV SPD	11.4	11.9	9.4	0.0	0.0	4.8	0.0	5.6	5.2	11.2	10.4	4.7	4.3	6.9	9.9	13.6			
AVERAGE SPEED FOR THIS TABLE EQUALS 9.1																			
HOURS IN ABOVE TABLE WITH VARIABLE DIRECTION = 1																			

JOINT FREQUENCY TABLES OF WIND SPEED AND DIRECTION
 FOR TEMPERATURE DIFFERENCE (DEG F/100FT) GREATER THAN -.9 BUT LESS THAN OR EQUAL TO -.7
 SITE THREE MILE ISLAND
 PERIOD OF RECORD FROM 77040101 TO 77063024
 SPEED AND DIRECTION FROM 100FT LEVEL
 TEMPERATURE DIFFERENCE BETWEEN 150FT AND 33FT

REQUEST NUMBER 707-40

SPEED(MPH)	WIND DIRECTION																TOTAL	PERCENT	GEO ME SPD(MPH)
	N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW			
CALM	0	0	1	0	0	0	0	0	0	1	0	1	0	0	0	0	3	.8	.50
CALM+ - 3.5	0	5	3	1	4	0	2	7	3	1	3	2	1	0	0	0	32	8.5	2.06
3.6 - 7.5	5	15	5	7	16	18	11	10	7	6	10	9	8	8	7	11	153	40.8	5.24
7.6 - 12.5	5	1	4	1	5	10	7	5	4	11	9	6	6	4	9	10	97	25.0	9.41
12.6 - 18.5	6	3	0	0	1	0	2	0	0	6	9	2	3	10	15	14	70	18.7	14.47
18.6 - 24.5	2	1	0	0	0	0	0	0	0	0	0	0	0	0	5	8	16	4.3	20.78
24.6 - 32.5	0	0	0	0	0	0	0	0	0	0	0	0	0	1	1	2	4	1.1	28.17
32.6+	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.0	0.00
TOTAL	18	23	13	9	26	28	22	22	14	24	31	20	18	23	37	45	375	0.0	5.61
PERCENT	4.8	6.7	3.5	2.4	6.9	7.5	5.9	5.9	3.7	6.4	8.3	5.3	4.8	6.1	9.9	12.0	100.0		
AV SPD	12.1	7.1	5.2	5.3	6.0	6.8	7.4	5.1	6.5	9.1	8.8	7.2	8.2	10.7	12.9	13.2			
AVERAGE SPEED FOR THIS TABLE EQUALS 8.9																			
HOURS IN ABOVE TABLE WITH VARIABLE DIRECTION = 1																			

POOR ORIGINAL

Attachment 2 (continued)

JOINT FREQUENCY TABLES OF WIND SPEED AND DIRECTION
 FOR TEMPERATURE DIFFERENCE (DEG F/100FT) GREATER THAN -0.8 BUT LESS THAN OR EQUAL TO -0.8
 REQUEST NUMBER 707-50
 SITE THREE MILE ISLAND
 PERIOD OF RECORD FROM 77010609 TO 77032313
 SPEED AND DIRECTION FROM 100FT LEVEL
 TEMPERATURE DIFFERENCE BETWEEN 150FT AND 33FT

WIND DIRECTION

SPD (MPH)	N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	TOTAL	PERCENT	GEO MEAN SPD (MPH)
CALM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.0	
CALM - 3.5	0	0	0	0	1	0	0	0	1	0	0	0	0	0	0	0	2	13.3	
3.6 - 7.5	0	0	0	0	1	0	0	2	0	0	0	0	0	0	0	1	5	33.3	
7.6 - 12.5	1	0	0	0	0	0	0	1	0	0	0	0	1	0	0	0	2	13.3	
12.6 - 18.5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2	0	3	20.0	
18.6 - 24.5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.0	
24.6 - 32.5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.0	
32.6 - 40.5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.0	
TOTAL	1	0	0	0	2	1	0	3	1	0	0	0	1	0	5	1	15	100.0	
PERCENT	6.7	0.0	0.0	0.0	13.3	6.7	0.0	20.0	6.7	0.0	0.0	0.0	6.7	0.0	33.3	6.7	100.0		
AV SPD	11.3	0.0	0.0	0.0	5.0	5.0	0.0	7.7	1.1	0.0	0.0	0.0	14.7	0.0	18.7	7.3			

JOINT FREQUENCY TABLES OF WIND SPEED AND DIRECTION

FOR TEMPERATURE DIFFERENCE (DEG F/100FT) GREATER THAN -0.8 BUT LESS THAN OR EQUAL TO -0.8

REQUEST NUMBER 707-50

SITE THREE MILE ISLAND

PERIOD OF RECORD FROM 77010609 TO 77032313

SPEED AND DIRECTION FROM 100FT LEVEL

TEMPERATURE DIFFERENCE BETWEEN 150FT AND 33FT

WIND DIRECTION

SPD (MPH)	N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	TOTAL	PERCENT	GEO MEAN SPD (MPH)
CALM	0	0	2	0	0	0	0	0	0	0	0	0	0	0	0	0	2	1.0	.50
CALM - 3.5	3	1	2	1	3	6	1	2	2	2	2	0	0	0	3	0	27	14.1	2.31
3.6 - 7.5	1	0	1	0	6	4	7	3	3	6	0	1	1	1	3	2	42	21.9	5.39
7.6 - 12.5	0	0	0	0	3	13	3	4	4	3	1	0	2	8	25	7	71	37.0	9.74
12.6 - 18.5	0	0	0	0	0	;	2	0	0	2	1	0	4	1	9	4	24	12.5	14.87
18.6 - 24.5	0	0	0	0	0	0	0	0	0	0	0	0	0	8	9	1	18	9.4	22.26
24.6 - 32.5	0	0	0	0	0	0	0	0	0	0	0	0	0	6	2	0	9	4.2	26.04
32.6 - 40.5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.0	0.00
TOTAL	4	1	5	1	12	24	13	10	9	12	4	1	7	24	51	14	192	0.0	5.74
PERCENT	2.1	.5	2.6	.5	6.3	12.5	6.8	5.2	4.7	6.3	2.1	.5	3.6	12.5	26.6	7.3	100.0		
AV SPD	3.2	1.4	2.3	3.0	6.6	7.9	6.9	6.5	6.3	6.6	7.2	6.4	12.7	18.6	13.1	11.8			

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POOR ORIGINAL

Attachment 2

1 of 5

REQUEST NUMBER 707-50

JOINT FREQUENCY TABLES OF WIND SPEED AND DIRECTION
FOR TEMPERATURE DIFFERENCE (DEG F/100FT) LESS THAN OR EQUAL TO -1.0
SITE THREE MILE ISLAND
PERIOD OF RECORD FROM 77010600 TO 77032313
SPEED AND DIRECTION FROM 100FT LEVEL
TEMPERATURE DIFFERENCE BETWEEN 150FT AND 33FT

WIND DIRECTION

SPEED(MPH)	N	NNE	NE	ENE	E	ESE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	TOTAL	PERCENT	GEO MEAN SPD(MPH)
CALM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.0	0.00
3.5	0	0	0	1	0	0	0	0	0	0	1	0	0	0	2	4	7.8	2.86
7.5	0	0	0	0	0	0	0	0	0	0	0	0	0	1	1	7	13.7	4.50
12.5	1	0	0	0	0	0	0	0	0	0	0	3	5	6	5	20	39.2	10.20
17.5	0	0	0	0	0	0	0	0	0	0	0	4	3	8	2	17	33.3	14.03
22.5	0	0	0	0	0	0	0	0	0	0	0	0	1	2	0	3	5.9	22.90
27.5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.0	0.00
32.5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.0	0.00
TOTAL	1	0	0	1	0	2	0	0	1	0	1	7	10	17	12	51	0.0	9.15
PERCENT	2.0	0.0	0.0	2.0	0.0	3.9	0.0	0.0	2.0	0.0	2.0	13.7	19.6	33.3	23.5	100.0		
AV SPD	2.3	0.0	0.0	3.0	0.0	3.7	0.0	0.0	2.5	0.0	2.5	13.4	12.2	13.1	8.5			

AVERAGE SPEED FOR THIS TABLE EQUALS 11.0
HOURS IN ABOVE TABLE WITH VARIABLE DIRECTION = 1

REQUEST NUMBER 707-50

JOINT FREQUENCY TABLES OF WIND SPEED AND DIRECTION
FOR TEMPERATURE DIFFERENCE (DEG F/100FT) GREATER THAN -1.0 BUT LESS THAN OR EQUAL TO -0.9
SITE THREE MILE ISLAND
PERIOD OF RECORD FROM 77010600 TO 77032313
SPEED AND DIRECTION FROM 100FT LEVEL
TEMPERATURE DIFFERENCE BETWEEN 150FT AND 33FT

POOR ORIGINAL

WIND DIRECTION

SPEED(MPH)	N	NNE	NE	ENE	E	ESE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	TOTAL	PERCENT	GEO MEAN SPD(MPH)
CALM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.0	0.00
3.5	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	9.1	3.20
7.5	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	2	18.2	4.42
12.5	0	0	0	0	0	0	0	0	0	1	0	1	2	0	1	5	45.5	4.70
17.5	0	0	0	0	0	0	0	0	0	0	0	0	0	1	1	2	18.2	16.41
22.5	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	1	5.1	20.10
27.5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.0	0.00
32.5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.0	0.00
TOTAL	1	0	0	0	0	2	0	0	1	0	0	2	2	1	2	11	0.0	7.29
PERCENT	9.1	0.0	0.0	0.0	0.0	18.2	0.0	0.0	9.1	0.0	0.0	18.2	18.2	9.1	18.2	100.0		
AV SPD	3.2	0.0	0.0	0.0	0.0	12.1	0.0	0.0	9.0	0.0	0.0	6.8	7.7	15.4	14.9			

AVERAGE SPEED FOR THIS TABLE EQUALS 10.0
HOURS IN ABOVE TABLE WITH VARIABLE DIRECTION = 0

1564 347

FOR TEMPERATURE DIFFERENCE (DEG F/100FT) GREATER THAN .3 BUT LESS THAN OR EQUAL TO .8 REQUEST NUMBER 707-50

JOINT FREQUENCY TABLES OF WIND SPEED AND DIRECTION
SITE TUMPF MILF ISLAND
PERIOD OF RECORD FROM 77010609 TO 77032313
SPEED AND DIRECTION FROM 100FT LEVEL
TEMPERATURE DIFFERENCE BETWEEN 150FT AND 33FT

WIND DIRECTION

SPEED (MPH)	N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	TOTAL	PERCENT	GED MEAN SPD (MPH)
CALM	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	.4	.50
3.5	4	2	4	2	6	7	7	3	5	3	3	2	3	0	2	3	56	23.7	1.99
7.5	5	2	1	1	7	4	11	3	5	4	3	4	14	10	6	8	52	39.0	5.32
12.5	0	0	0	0	2	2	9	2	0	6	2	2	13	8	7	5	58	24.6	9.42
18.5	0	0	0	0	0	0	0	0	0	1	0	0	4	6	9	2	22	9.3	14.53
24.5	0	0	0	0	0	0	0	0	0	0	0	0	1	3	3	0	7	3.0	20.28
32.5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.0	0.00
TOTAL	9	5	5	3	15	13	27	8	10	18	8	8	35	27	27	18	236	0.0	4.25
PERCENT	3.3	2.1	2.1	1.3	6.4	5.5	11.4	3.4	4.2	7.6	3.4	3.4	14.8	11.4	11.4	7.6	100.0		
AV SPD	3.4	3.1	2.5	3.0	4.8	4.2	6.3	5.2	3.7	6.8	5.4	5.4	8.3	10.7	11.1	7.2			

AVERAGE SPEED FOR THIS TABLE EQUALS 7.1
BOIDS IN ABOVE TABLE WITH VARIABLE DIRECTION = 7

FOR TEMPERATURE DIFFERENCE (DEG F/100FT) GREATER THAN .8 BUT LESS THAN OR EQUAL TO 2.2 REQUEST NUMBER 707-50

JOINT FREQUENCY TABLES OF WIND SPEED AND DIRECTION
SITE TUMPF MILF ISLAND
PERIOD OF RECORD FROM 77010609 TO 77032313
SPEED AND DIRECTION FROM 100FT LEVEL
TEMPERATURE DIFFERENCE BETWEEN 150FT AND 33FT

WIND DIRECTION

SPEED (MPH)	N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	TOTAL	PERCENT	GED MEAN SPD (MPH)
CALM	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	1	2.6	.50
3.5	2	2	2	2	1	4	1	0	0	4	1	0	4	1	0	1	25	64.1	1.79
7.5	0	0	0	1	0	0	0	0	0	2	1	0	3	2	2	0	11	28.2	5.29
12.5	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	1	2	5.1	8.07
18.5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.0	0.00
24.5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.0	0.00
32.5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.0	0.00
TOTAL	2	2	2	3	2	4	1	0	0	7	2	0	7	3	2	2	39	0.0	2.13
PERCENT	5.1	5.1	5.1	7.7	5.1	10.3	2.6	0.0	0.0	17.9	5.1	0.0	17.9	7.7	5.1	5.1	100.0		
AV SPD	2.4	2.0	2.7	3.2	2.8	1.8	1.7	0.0	0.0	4.3	4.1	0.0	3.8	4.3	4.2	5.3			

AVERAGE SPEED FOR THIS TABLE EQUALS 3.4
BOIDS IN ABOVE TABLE WITH VARIABLE DIRECTION = 0

POOR ORIGINAL

Attachment 2 (continued)

4 of 5

REQUEST NUMBER 707-50

JOINT FREQUENCY TABLES OF WIND SPEED AND DIRECTION
FOR TEMPERATURE DIFFERENCE (DEG F) GREATER THAN 2.2
SITE TIME WLF 151 AND
PERIOD OF RECORD FROM 77010000 TO 77032313
SPEED AND DIRECTION FROM 100FT LEVEL
TEMPERATURE DIFFERENCE BETWEEN 150FT AND 33FT

WIND DIRECTION

COEFF (404)	N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	TOTAL	PERCENT	GEO MEAN SPD (404)
CALM	0	0	1	0	0	0	1	0	0	0	0	0	0	0	0	0	2	3.2	.50
CALM - 3.5	3	1	2	3	0	0	5	4	3	3	4	3	1	1	1	6	50	80.6	1.63
3.6 - 7.5	4	0	0	0	0	0	0	1	0	0	1	0	1	0	1	1	9	14.5	4.57
7.6 - 12.5	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	1.6	7.60
12.6 - 14.5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.0	0.00
14.6 - 24.5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.0	0.00
24.6 - 32.5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.0	0.00
32.6 -	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.0	0.00
TOTAL	8	1	3	3	0	0	6	5	3	5	5	3	2	1	2	7	62	0.0	1.69
PERCENT	12.5	1.6	4.0	4.0	0.0	0.0	9.7	8.1	4.0	8.3	8.1	4.0	3.2	1.6	3.2	11.3	100.0		
AV SPD	4.2	2.3	2.4	1.3	2.1	2.2	2.0	2.2	2.0	2.2	2.4	2.9	3.6	2.2	3.2	2.5			

AVERAGE SPEED FOR THIS TABLE FORMALS 2.5
HOURS IN ABOVE TABLE WITH VARIABLE DIRECTION = 5

POOR ORIGINAL

1564 349

Attachment 2 (continued)

	SI	FSF	CF	CSF	TA	HL	F	SSW	SW	MSW	W	WNW	NW	NNE	TOTAL	PERCENT
CDFC	0	1	1	0	0	0	0	0	0	0	0	0	0	0	0	1.0
CAF	10	10	14	6	11	11	12	10	10	6	4	2	6	12	165	27.2
CAF	14	14	21	11	11	11	14	5	5	5	20	14	13	15	168	27.7
CAF	5	15	13	5	4	4	10	4	4	2	19	23	38	19	159	26.2
CAF	0	1	2	0	0	0	3	1	1	0	13	10	29	9	69	11.2
CAF	0	0	1	0	0	0	0	0	0	0	1	12	17	1	32	5.3
CAF	0	0	0	0	0	0	0	0	0	0	0	6	2	0	4	1.3
CAF	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.0
CAF	30	43	51	24	23	23	43	20	13	13	61	67	105	56	606	100.0
TOTAL	6.4	7.1	8.4	4.0	3.8	3.8	7.1	3.3	2.1	2.1	10.1	11.1	17.3	9.2	100.0	
PERCENT	4.3	1.5	2.5	1.9	1.5	1.5	4.3	2.1	2.1	2.1	10.1	11.1	17.3	9.2	100.0	

POOR ORIGINAL

1564 350

Attachment 3 (continued)

3 of 5

JOINT FREQUENCY TABLES OF WIND SPEED AND DIRECTION
FOR TEMPERATURE DIFFERENCE (DEG F/100FT) GREATER THAN .3 BUT LESS THAN OR EQUAL TO .6
SITE THREE MILE ISLAND
PERIOD OF RECORD FROM 77040101 TO 77063024
SPEED AND DIRECTION FROM 100FT LEVEL
TEMPERATURE DIFFERENCE BETWEEN 150FT AND 33FT

REQUEST NUMBER 707-40

WIND DIRECTION

SPEED(MPH)	N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NW	TOTAL	PERCENT	GFD MEAN SPD(MPH)
CALM	0	0	0	0	1	0	1	1	0	1	0	0	1	0	0	0	5	1.0	1.50
CALM+ - 3.5	4	4	8	4	12	7	10	10	12	6	8	7	3	6	2	4	107	20.7	2.41
3.6 - 7.5	14	12	15	9	14	10	17	23	27	20	20	17	14	7	11	15	245	47.3	5.25
7.6 - 12.5	5	15	7	2	0	2	4	7	8	13	10	2	5	6	11	17	116	22.4	9.21
12.6 - 18.5	12	3	0	0	1	0	0	1	0	0	3	2	3	4	4	6	41	7.9	14.32
18.6 - 24.5	1	2	0	0	0	0	0	0	0	0	0	0	0	0	1	0	4	.8	10.1
24.6 - 32.5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.0	0.00
32.6+	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.0	0.00
TOTAL	36	30	30	15	28	19	32	42	47	40	41	26	26	25	29	44	518	0.0	4.44
PERCENT	6.9	6.4	5.8	2.9	5.4	3.7	6.2	8.1	9.1	7.7	7.9	5.4	5.0	4.8	5.0	8.5	100.0		
AV SPD	9.7	8.5	5.3	5.1	4.1	4.6	4.6	5.2	5.5	6.1	6.6	5.8	6.7	7.6	8.5	8.6			
AVERAGE SPEED FOR THIS TABLE EQUALS 6.5																			
HOURS IN ABOVE TABLE WITH VARIABLE DIRECTION = 2																			

JOINT FREQUENCY TABLES OF WIND SPEED AND DIRECTION
FOR TEMPERATURE DIFFERENCE (DEG F/100FT) GREATER THAN .6 BUT LESS THAN OR EQUAL TO 2.2
SITE THREE MILE ISLAND
PERIOD OF RECORD FROM 77040101 TO 77063024
SPEED AND DIRECTION FROM 100FT LEVEL
TEMPERATURE DIFFERENCE BETWEEN 150FT AND 33FT

REQUEST NUMBER 707-40

WIND DIRECTION

SPEED(MPH)	N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NW	TOTAL	PERCENT	GFD MEAN SPD(MPH)
CALM	0	0	2	0	1	0	0	0	1	1	1	0	0	0	0	0	6	2.7	1.50
CALM+ - 3.5	2	4	9	4	2	11	5	6	0	4	2	5	2	2	1	4	63	24.4	2.25
3.6 - 7.5	15	10	10	8	4	3	8	8	8	4	9	6	8	5	6	4	121	54.5	4.73
7.6 - 12.5	11	3	0	0	2	0	2	0	1	0	1	0	4	1	1	3	29	13.1	9.05
12.6 - 18.5	1	0	0	0	0	0	0	0	0	1	0	0	0	0	0	1	3	1.4	13.07
18.6 - 24.5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.0	0.00
24.6 - 32.5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.0	0.00
32.6+	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.0	0.00
TOTAL	29	17	21	12	9	14	15	14	10	10	13	11	14	8	8	17	222	0.0	3.22
PERCENT	13.1	7.7	9.5	5.4	4.1	6.3	6.8	6.3	4.5	4.5	5.9	5.0	6.3	3.6	3.6	7.7	100.0		
AV SPD	6.8	4.9	3.2	4.0	4.6	3.1	4.5	3.9	5.1	4.7	4.7	3.6	5.8	5.5	5.3	5.7			
AVERAGE SPEED FOR THIS TABLE EQUALS 4.8																			
HOURS IN ABOVE TABLE WITH VARIABLE DIRECTION = 3																			

POOR ORIGINAL

1564 351

Attachment 3 (continued)

4 of 5

REQUEST NUMBER 707-40

JOINT FREQUENCY TABLES OF WIND SPEED AND DIRECTION
 FOR TEMPERATURE DIFFERENCE (DEG F/100FT) GREATER THAN 2.2
 SITE THREE MILE ISLAND
 PERIOD OF RECORD FROM 77040101 TO 77063024
 SPEED AND DIRECTION FROM 100FT LEVEL
 TEMPERATURE DIFFERENCE BETWEEN 150FT AND 33FT

WIND DIRECTION

SPEED(MPH)	N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	TOTAL	PERCENT	GEQ MEAN SPD(MPH)
CALM	0	1	4	0	0	0	0	0	2	0	0	1	0	1	0	0	9	7.7	.50
CALM+ = 3.5	1	2	7	4	4	1	2	0	4	3	6	3	4	5	2	2	56	47.9	2.40
3.6 - 7.5	4	3	2	0	7	4	1	3	6	5	0	0	0	2	5	3	45	38.5	4.80
7.6 - 12.5	2	0	0	0	0	0	0	1	0	0	0	0	0	0	0	2	5	4.3	10.42
12.6 - 18.5	1	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	2	1.7	18.11
18.6 - 24.5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.0	0.00
24.6 - 32.5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.0	0.00
32.6+	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.0	0.00
TOTAL	8	6	13	4	11	5	3	10	12	8	6	4	4	8	6	7	117	0.0	2.28
PERCENT	6.8	5.1	11.1	3.4	9.4	4.3	2.6	8.5	10.3	6.8	5.1	3.4	3.4	6.8	5.2	6.0	100.0		
AV SPD	7.9	2.8	2.2	3.0	4.2	4.6	3.3	4.5	3.1	4.2	2.4	2.0	3.0	2.9	5.2	6.5			
AVERAGE SPEED FOR THIS TABLE EQUALS 3.9																			
HOURS IN ABOVE TABLE WITH VARIABLE DIRECTION = 2																			

POOR ORIGINAL

1564 352

Attachment 3 (continued)

5 of 5

SUMMARY TABLE																		
SPEED	N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	LNW	TOTAL	PERCENT
CALM	0	1	7	0	2	0	2	1	4	4	1	2	1	1	0	0	20	1.5
CALM+ - 3.5	9	19	28	13	23	21	22	31	22	14	20	20	11	15	8	12	225	16.7
3.6 - 7.5	60	49	36	27	42	40	44	60	56	44	50	44	45	30	41	61	726	42.3
7.6 - 12.5	45	28	17	5	8	14	19	21	18	37	41	16	25	20	51	63	426	24.9
12.6 - 18.5	36	11	1	0	2	1	5	6	1	9	23	6	13	20	31	36	201	11.7
18.6 - 24.5	6	4	0	0	0	0	0	0	0	0	0	0	0	0	12	12	34	2.0
24.6 - 32.5	5	1	0	0	0	0	0	0	0	0	0	0	0	0	1	6	14	.8
32.6+	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	2	.1
TOTAL	162	113	89	45	77	76	92	119	101	108	135	86	95	87	144	191	1722	100.0
PERCENT	9.4	6.0	5.2	2.6	4.5	4.4	5.3	6.8	5.9	6.3	7.8	5.1	5.5	5.1	8.4	11.1	100.0	

POOR ORIGINAL

1564 353

JOINT FREQUENCY TABLES OF WIND SPEED AND DIRECTION
FOR TEMPERATURE DIFFERENCE (DEG F/100FT) LESS THAN OR EQUAL TO -1.0

REQUEST NUMBER 707-4991

SITE THREE MILE ISLAND

PERIOD OF RECORD FROM 77040714 TO 77063013

SPEED AND DIRECTION FROM 100FT LEVEL

TEMPERATURE DIFFERENCE BETWEEN 150FT AND 33FT

WIND DIRECTION

SPEED (MPH)	N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	TOTAL	PERCENT	GEO MEAN SPD (MPH)
0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.0	0.00
3.5	0	3	1	0	0	0	1	0	0	0	0	0	0	0	1	0	4	9.5	2.56
7.5	2	1	0	1	0	0	1	6	1	1	1	0	3	0	2	6	25	29.8	5.28
12.5	4	0	3	1	0	0	2	3	2	0	0	0	2	1	4	6	28	33.3	6.41
17.5	1	1	0	0	0	1	0	1	1	0	2	1	0	1	4	2	15	17.9	14.92
22.5	0	1	0	0	0	0	0	0	0	0	0	0	0	0	3	0	4	4.8	19.73
27.5	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	3	3.6	24.99
32.5	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	1.2	33.20
TOTAL	10	6	4	2	6	1	4	10	4	1	3	2	5	3	14	15	84	100.0	6.97
PERCENT	11.9	7.1	4.8	2.4	0.0	1.2	4.8	11.9	4.8	1.2	3.6	2.4	6.0	3.6	16.7	17.9	100.0		
AV SPD	15.4	0.0	7.3	4.3	0.0	13.6	7.9	9.3	10.8	3.8	11.2	7.5	6.9	8.6	13.0	9.7			

AVERAGE SPEED FOR THIS TABLE EQUALS 10.3

WINDS IN ABOVE TABLE WITH VARIABLE DIRECTION = 4

JOINT FREQUENCY TABLES OF WIND SPEED AND DIRECTION

FOR TEMPERATURE DIFFERENCE (DEG F/100FT) GREATER THAN -1.0 BUT LESS THAN OR EQUAL TO -0.9

REQUEST NUMBER 707-4991

SITE THREE MILE ISLAND

PERIOD OF RECORD FROM 77040714 TO 77063013

SPEED AND DIRECTION FROM 100FT LEVEL

TEMPERATURE DIFFERENCE BETWEEN 150FT AND 33FT

WIND DIRECTION

SPEED (MPH)	N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	TOTAL	PERCENT	GEO MEAN SPD (MPH)
0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.0	0.00
3.5	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	4.3	2.60
7.5	0	1	2	0	0	0	0	0	0	0	0	1	0	0	0	0	4	33.3	5.13
12.5	1	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	3	25.0	4.41
17.5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	1	2	14.7	14.73
22.5	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	2	16.7	19.44
27.5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.0	0.00
32.5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.0	0.00
TOTAL	2	2	2	0	0	0	0	1	0	1	0	1	0	0	1	2	12		6.94
PERCENT	16.7	16.7	16.7	0.0	0.0	0.0	0.0	8.3	0.0	8.3	0.0	8.3	0.0	0.0	8.3	16.7	100.0		
AV SPD	13.6	4.0	5.6	0.0	0.0	0.0	0.0	9.2	0.0	0.0	0.0	4.2	0.0	0.0	15.3	17.6			

AVERAGE SPEED FOR THIS TABLE EQUALS 10.1

WINDS IN ABOVE TABLE WITH VARIABLE DIRECTION = 0

POOR ORIGINAL

1564 354

Attachment 4 (continued)

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REQUEST NUMBER 707-4941

JOINT FREQUENCY TABLES OF WIND SPEED AND DIRECTION
FOR TEMPERATURE DIFFERENCE (DEG F/100FT) GREATER THAN -0.4 BUT LESS THAN OR EQUAL TO -0.4
SITE THREE MILE ISLAND
PERIOD OF RECORD FROM 77040714 TO 77063013
SPEED AND DIRECTION FROM 100FT LEVEL
TEMPERATURE DIFFERENCE BETWEEN 150FT AND 33FT

WIND DIRECTION

SPEED (MPH)	N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	TOTAL	PERCENT	GEO MEAN SPD (MPH)
CALM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.0	0.00
3.5	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	1	14.3	2.20
7.5	0	0	0	0	0	0	0	2	0	0	0	1	0	0	0	0	3	42.9	5.46
12.5	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	1	2	24.6	11.34
17.5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.0	0.00
22.5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	1	14.3	14.60
27.5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.0	0.00
32.5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.0	0.00
TOTAL	0	1	0	0	0	0	0	2	0	0	0	1	1	0	0	2	7	0.0	5.67
PERCENT	0.0	14.3	0.0	0.0	0.0	0.0	0.0	28.6	0.0	0.0	0.0	14.3	14.3	0.0	0.0	28.6	100.0		
AVG SPD	0.0	12.2	0.0	0.0	0.0	0.0	0.0	5.6	0.0	0.0	0.0	5.7	2.2	0.0	0.0	14.6			

AVERAGE SPEED FOR THIS TABLE EQUALS 9.6
VALUES IN ABOVE TABLE WITH VARIABLE DIRECTION = 1

REQUEST NUMBER 707-4941

JOINT FREQUENCY TABLES OF WIND SPEED AND DIRECTION
FOR TEMPERATURE DIFFERENCE (DEG F/100FT) GREATER THAN -0.4 BUT LESS THAN OR EQUAL TO -0.3
SITE THREE MILE ISLAND
PERIOD OF RECORD FROM 77040714 TO 77063013
SPEED AND DIRECTION FROM 100FT LEVEL
TEMPERATURE DIFFERENCE BETWEEN 150FT AND 33FT

WIND DIRECTION

SPEED (MPH)	N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	TOTAL	PERCENT	GEO MEAN SPD (MPH)
CALM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.0	0.00
3.5	0	2	1	1	0	0	0	1	0	0	1	0	0	0	0	0	6	10.9	2.25
7.5	1	2	0	0	3	0	0	2	1	0	4	1	1	0	0	1	14	34.5	5.50
12.5	1	0	1	0	0	0	0	0	1	3	2	1	0	1	1	1	12	21.8	9.79
17.5	2	2	0	0	1	0	0	0	0	2	2	0	0	0	2	2	13	23.6	15.07
22.5	1	0	0	0	0	0	0	0	0	0	0	0	0	0	1	3	5	9.1	20.69
27.5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.0	0.00
32.5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.0	0.00
TOTAL	5	6	2	1	4	3	0	3	2	5	9	2	1	1	4	7	55		6.51
PERCENT	9.1	10.9	3.6	1.8	7.3	5.5	0.0	5.5	3.6	9.1	16.4	3.6	1.8	1.8	7.3	12.7	100.0		
AVG SPD	16.4	14.0	5.8	1.8	7.4	5.3	0.0	4.7	7.1	12.4	7.5	7.3	7.5	11.0	14.5	16.3			

AVERAGE SPEED FOR THIS TABLE EQUALS 9.9
VALUES IN ABOVE TABLE WITH VARIABLE DIRECTION = 2

1564 355

POOR ORIGINAL

Attachment 4 (continued)

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REQUEST NUMBER 707-49P1

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JOINT FREQUENCY TABLES OF WIND SPEED AND DIRECTION
FOR TEMPERATURE DIFFERENCE (DEG F/100FT) GREATER THAN .5 BUT LESS THAN OR EQUAL TO .8

SITE THREE MILE ISLAND
PERIOD OF RECORD FROM 77060714 TO 77063013
SPEED AND DIRECTION FROM 100FT LEVEL
TEMPERATURE DIFFERENCE BETWEEN 150FT AND 33FT

WIND DIRECTION

SPEED (MPH)	N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	TOTAL	PERCENT	GEO MEAN SPD (MPH)
CALM - 3.5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.0	0.00
3.5 - 7.5	0	0	3	0	1	1	3	0	5	0	3	2	2	0	0	1	22	19.0	2.35
7.5 - 12.5	3	1	3	2	3	1	10	9	9	6	4	3	0	3	1	9	59	50.9	5.20
12.5 - 18.5	0	0	0	0	0	0	2	1	2	1	3	0	0	0	1	5	24	20.7	4.43
18.5 - 24.5	4	1	0	0	0	0	0	0	0	0	2	0	0	0	1	1	10	8.6	14.78
24.5 - 32.5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	.9	14.80
32.5 - 40.5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.0	0.00
TOTAL	7	1	4	2	4	4	4	15	16	9	12	5	2	3	3	15	116	0.0	4.81
PERCENT	6.0	5.2	5.9	1.7	3.6	3.6	3.6	12.9	13.8	7.9	10.3	4.3	1.7	2.6	2.6	13.4	100.0		
AV SPD	11.0	10.9	4.7	4.7	4.4	6.1	6.6	5.2	5.2	6.6	7.2	3.7	3.1	7.2	9.1	7.4			

AVERAGE SPEED FOR THIS TABLE EQUALS 6.6
HOURS IN ABOVE TABLE WITH VARIABLE DIRECTION = 0

REQUEST NUMBER 707-49P1

2.2

JOINT FREQUENCY TABLES OF WIND SPEED AND DIRECTION
FOR TEMPERATURE DIFFERENCE (DEG F/100FT) GREATER THAN .5 BUT LESS THAN OR EQUAL TO .8

SITE THREE MILE ISLAND
PERIOD OF RECORD FROM 77060714 TO 77063013
SPEED AND DIRECTION FROM 100FT LEVEL
TEMPERATURE DIFFERENCE BETWEEN 150FT AND 33FT

WIND DIRECTION

SPEED (MPH)	N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	TOTAL	PERCENT	GEO MEAN SPD (MPH)
CALM - 3.5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.0	0.00
3.5 - 7.5	0	0	1	0	0	0	1	0	0	0	0	1	1	0	0	0	4	11.4	2.17
7.5 - 12.5	1	0	2	4	3	1	2	1	3	0	2	1	0	0	3	3	26	74.3	4.63
12.5 - 18.5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	4	11.4	9.02
18.5 - 24.5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	1	2.9	14.20
24.5 - 32.5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.0	0.00
32.5 - 40.5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.0	0.00
TOTAL	2	0	3	4	3	1	3	1	3	0	2	2	1	0	3	5	35	0.0	4.39
PERCENT	5.7	0.0	8.6	11.4	14.3	2.9	8.6	2.9	8.6	0.0	5.7	5.7	2.9	0.0	8.6	14.3	100.0		
AV SPD	6.3	0.0	3.4	4.7	6.4	4.2	4.2	4.4	4.4	0.0	4.4	3.6	3.4	0.0	5.1	7.7			

AVERAGE SPEED FOR THIS TABLE EQUALS 5.2
HOURS IN ABOVE TABLE WITH VARIABLE DIRECTION = 0

1564 356

POOR ORIGINAL

JOINT FREQUENCY TABLE OF WIND SPEED AND DIRECTION
FOR TEMPERATURE DIFFERENCE (DEG F/100FT) GREATER THAN 2.2
SITE THREE MILE ISLAND
PERIOD OF RECORD FROM 17640714 TO 77063013
SPEED AND DIRECTION FROM 100FT LEVEL
TEMPERATURE DIFFERENCE BETWEEN 150FT AND 33FT

REQUEST NUMBER 707-4941

WIND DIRECTION

SPEED (KPH)	N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NNW	N	NW	W	WSW	SW	SSW	S	SSE	SE	ESE	E	ENE	NE	NNE	N
CALM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
CALM - 3.5	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
CALM - 7.5	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
3.5 - 7.5	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
7.5 - 12.5	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
12.5 - 17.5	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
17.5 - 22.5	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
22.5 - 27.5	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
27.5 - 32.5	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
32.5 - 37.5	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
TOTAL	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
PERCENT	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
AV SPD	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
AVERAGE SPEED FOR THIS TABLE EQUALS	5.9																													
HOURS IN ABOVE TABLE WITH VARIABLE DIRECTION =	0																													

POOR ORIGINAL

1564 357

