

QCP 100-S25  
Revision 5  
March 1989

EFFLUENT AND WASTE DISPOSAL  
SEMI-ANNUAL REPORT January - June 1993  
GASEOUS EFFLUENTS - SUMMATION OF ALL RELEASES

PROCEDURE: QCP 100-7

	Unit	Quarter First	Quarter Second	Est. Total Error, %
--	------	------------------	-------------------	------------------------

A. FISSION & ACTIVATION GASES

1. Total Release	Ci	1.08E+01	7.24E00	12.4
2. Average release rate for period	μCi/sec	1.39E00	9.21E-01	
3. Percent of Tech Spec limit * Chimney & stack	%	4.38E-03 2.01E-04	2.69E-03 1.30E-04	

B. IODINE

1. Total Iodine-131	Ci	4.34E-04	3.07E-04	39.4
2. Average release rate for period	μCi/sec	5.58E-05	3.95E-05	

C. PARTICULATES

1. Particulates with half-lives > 3 days	Ci	1.06E-02	4.31E-03	29.2
2. Average release rate for period	μCi/sec	1.36E-03	5.48E-04	
3. Gross alpha radioactivity	Ci	< LRL	2.57E-06	

D. TRITIUM

1. Total Release	Ci	1.42E+01	1.23E+01	6.2
2. Average release rate for period	μCi/sec	1.82E00	1.57E00	

E. Iodine 131 & 133, Tritium and Particulates

Percent of Tech spec Limit Chimney & stack	%	1.94E-01	1.87E-01	
---	---	----------	----------	--

\*NOBLE GAS GAMMA/NOBLE GAS BETA DOSE LIMITS

APPROVED

JUN 12 1989

Q.C.O.S.R.

9/0295c

-1-

9308310201 930812  
PDR ADDCK 05000254  
R PDR

MAIN CHIMNEY  
GASEOUS EFFLUENTS

Nuclides Released	Unit	Continuous Mode		Batch Mode	
		Quarter First	Quarter Second	Quarter	Quarter
1. Fission gases					
Kr-85	C1	LLD	LLD	NA	NA
Kr-85m	C1	5.30E-01	3.52E-01	NA	NA
Kr-87	C1	2.78E-01	2.10E-01	NA	NA
Kr-88	C1	3.36E-01	2.49E-01	NA	NA
Xe-133	C1	9.01E-01	7.40E-01	NA	NA
Xe-135	C1	3.88E-01	5.34E-01	NA	NA
Xe-135m	C1	1.45E00	9.47E-01	NA	NA
Xe-138	C1	6.07E00	3.72E00	NA	NA
Ar-41	C1	8.32E-01	4.86E-01	NA	NA
	C1				
	C1				
	C1				
Total for Period	C1	1.08E+01	7.24E00	NA	NA

## 2. Iodine

I-131	C1	4.30E-04	3.07E-04	NA	NA
I-133	C1	1.59E-03	1.10E-03	NA	NA
I-135	C1	6.23E-04	5.16E-05	NA	NA
Total for Period	C1	2.64E-03	1.46E-03	NA	NA

APPROVED

JUN 12 1989

Q.C.O.S.R.

MAIN CHIMNEY  
GASEOUS EFFLUENTS

Nuclides Released	Unit	Continuous Mode		Batch Mode	
		Quarter First	Quarter Second	Quarter	Quarter
3. Particulates					
Sr-89*	Cf	1.69E-04	1.46E-04	NA	NA
Sr-90*	Cf	4.89E-07	< LLD	NA	NA
Cs-134	Cf	< LLD	< LLD	NA	NA
Cs-137	Cf	< LLD	< LLD	NA	NA
Ba-140	Cf	2.96E-05	8.19E-05	NA	NA
La-140	Cf	2.90E-04	1.35E-04	NA	NA
Cr-51	Cf	3.69E-04	< LLD	NA	NA
Mn-54	Cf	< LLD	< LLD	NA	NA
Co-58	Cf	< LLD	< LLD	NA	NA
Co-60	Cf	2.84E-04	2.32E-04	NA	NA
I-131	Cf	< LLD	< LLD	NA	NA
Ag-110m	Cf	1.17E-05	< LLD	NA	NA
I-133	Cf	3.12E-04	< LLD	NA	NA
Mo-99	Cf	1.00E-04	4.78E-05	NA	NA
	Cf				
	Cf				
	Cf				
	Cf				
Total for Period	Cf	1.57E-03	6.43E-04	NA	NA

\* Note: Values represent previous six months available data.

APPROVED

JUN 12 1989

Q.C.O.S.R.

REACTOR VENTILATION  
GASEOUS EFFLUENTS

Nuclides Released	Unit	Continuous Mode		Batch Mode	
		Quarter First	Quarter Second	Quarter	Quarter
1. Fission gases					
Kr-85	C1	< LLD	< LLD	NA	NA
Kr-85m	C1	< LLD	< LLD	NA	NA
Kr-87	C1	< LLD	< LLD	NA	NA
Kr-88	C1	< LLD	< LLD	NA	NA
Xe-133	C1	< LLD	< LLD	NA	NA
Xe-135	C1	< LLD	< LLD	NA	NA
Xe-135m	C1	< LLD	< LLD	NA	NA
Xe-138	C1	< LLD	< LLD	NA	NA
	C1				
	C1				
Total for Period	C1	< LLD	< LLD	NA	NA

## 2. Iodines

I-131	C1	3.96E-06	< LLD	NA	NA
I-133	C1	1.44E-05	1.51E-05	NA	NA
I-135	C1	< LLD	< LLD	NA	NA
Total for Period	C1	7.84E-05	1.51E-05	NA	NA

APPROVED  
JUN 12 1989  
Q.C.O.S.R.

REACTOR VENTILATION  
GASEOUS EFFLUENTS

Nuclides Released	Unit	Continuous Mode		Batch Mode	
		Quarter First	Quarter Second	Quarter	Quarter
3. Particulates					
Sr-89 *	C1	1.73E-07	7.70E-07	NA	NA
Sr-90 *	C1	< LLD	< LLD	NA	NA
Cs-134	C1	< LLD	< LLD	NA	NA
Cs-137	C1	9.11E-05	3.34E-05	NA	NA
Ba-140	C1	< LLD	< LLD	NA	NA
La-140	C1	< LLD	< LLD	NA	NA
Cr-51	C1	1.33E-03	1.45E-03	NA	NA
Mn-54	C1	1.66E-03	1.44E-04	NA	NA
Co-58	C1	4.13E-04	3.13E-05	NA	NA
Co-60	C1	4.67E-03	1.21E-03	NA	NA
I-131	C1	< LLD	< LLD	NA	NA
Ag-110m	C1	< LLD	< LLD	NA	NA
Zn-65	C1	4.60E-05	< LLD	NA	NA
Zr-95	C1	6.16E-05	< LLD	NA	NA
Mo-99	C1	7.39E-04	7.99E-04	NA	NA
Sb-124	C1	2.23E-05	< LLD	NA	NA
	C1				
Total for Period	C1	9.03E-03	3.67E-03	NA	NA

\* Note: Values represent previous six months available data.

APPROVED

JUN 12 1989

Q.C.O.S.R.

## LIQUID EFFLUENTS - SUMMATION OF ALL RELEASES

	Unit	Quarter First	Quarter Second	Est. Total Error, %
A. FISSION & ACTIVATION PRODUCTS				
1. Total release (not including tritium, gases, alpha)	Ci	5.91E-03	4.31E-03	5.6
2. Average diluted concentration during batch discharges period	$\mu\text{Ci/ml}$	5.77E-09	2.70E-10	
3. Percent of applicable limit *	%	5.54E-03 3.29E-03	6.63E-03 2.90E-03	
4. Maximum diluted concentration during batch discharges	$\mu\text{Ci/ml}$	1.12E-08	1.77E-09	
B. TRITIUM				
1. Total release	Ci	1.91E00	3.58E00	4.0
2. Average diluted concentration during batch discharges	$\mu\text{Ci/ml}$	1.27E-06	5.89E-07	
3. Percent of applicable limit	%	4.23E-02	1.96E-02	
C. DISSOLVED AND ENTRAINED GASES				
1. Total release	Ci	4.50E-06	4.48E-04	5.6
2. Average diluted concentration during batch discharges	$\mu\text{Ci/ml}$	3.00E-12	7.38E-11	
3. Percent of applicable limit	%	1.50E-06	3.69E-05	
D. GROSS ALPHA RADIOACTIVITY				
1. Total Release	Ci	< LLD	< LLD	14.9
2. Average concentration released during batch discharges	$\mu\text{Ci/ml}$	< LLD	< LLD	
E. VOLUME OF WASTE RELEASED (prior to dilution)				
	Liters	5.49E+05	1.42E+06	
F. VOLUME OF DILUTION WATER USED DURING BATCH DISCHARGES				
	Liters	1.50E+09	6.08E+09	
G. TOTAL VOLUME OF DILUTION WATER DURING PERIOD (QUARTER)				
	Liters	3.04E11	8.67E11	
*WHOLE BODY/ORGAN				

## LIQUID EFFLUENTS

Nuclides Released	Unit	Continuous Mode		Batch Mode	
		Quarter	Quarter	Quarter First	Quarter Second
Sr-89 <sup>*</sup>	C1	NA	NA	1.28E-05	3.29E-06
Sr-90 <sup>*</sup>	C1	NA	NA	9.75E-07	4.22E-07
Cs-134	C1	NA	NA	< LLD	< LLD
Cs-137	C1	NA	NA	1.39E-04	1.24E-04
Sr-92	C1	NA	NA	1.07E-04	1.32E-05
Co-58	C1	NA	NA	1.28E-05	4.24E-05
Co-60	C1	NA	NA	4.09E-03	1.96E-03
Fe-59	C1	NA	NA	4.60E-05	< LLD
Zn-65	C1	NA	NA	< LLD	< LLD
Mn-54	C1	NA	NA	2.77E-04	2.02E-04
Cr-51	C1	NA	NA	8.77E-04	1.58E-03
Zr-95	C1	NA	NA	< LLD	< LLD
Sb-124	C1	NA	NA	< LLD	2.65E-05
Mo-99	C1	NA	NA	< LLD	4.70E-06
Ag-110m	C1	NA	NA	2.65E-04	1.13E-04
Ba-140	C1	NA	NA	< LLD	< LLD
As-76	C1	NA	NA	< LLD	1.43E-05
La-140	C1	NA	NA	< LLD	< LLD
Fe-55 <sup>*</sup>	C1	NA	NA	8.06E-05	2.24E-04
Tc-99m	C1	NA	NA	< LLD	5.40E-06
Total for Period (above)	C1	NA	NA	5.91E-03	4.31E-03
Xe-133	C1	NA	NA	< LLD	1.93E-04
Xe-135	C1	NA	NA	4.50E-06	2.55E-04

Prepared by *[Signature]*Approved by *Paul Behm*

Chemistry Supervisor

9/0295c

(final)  
-7-

APPROVED

\* Note: Scaled Values

JUN 12 1989

Q.C.O.S.R.

# Solid RadWaste Semi-Annual Report

January 1993

Shipping Date =====	Carrier =====	Site =====	Volume =====	Millicuries =====
01/13/93	KINDRICK TRUCKING	QUADREX	1474.4	88.38
01/22/93	CHEM-NUCLEAR SYSTEMS	BARNWELL, SC	205.8	34180.00
01/28/93	CHEM-NUCLEAR SYSTEMS	BARNWELL, SC	205.8	19100.00
01/28/93	KINDRICK TRUCKING	QUADREX	660.0	18.35
			2546.0	53386.73



## Solid RadWaste Semi-Annual Report

February 1993

Shipping Date =====	Carrier =====	Site =====	Volume =====	Millicuries =====
02/01/93	CHEM-NUCLEAR SYSTEMS	BARNWELL, SC	205.8	20180.00
02/03/93	KINDRICK TRUCKING	QUADREX	1290.1	32.37
02/11/93	CHEM-NUCLEAR SYSTEMS	BARNWELL, SC	205.8	19500.00
02/16/93	CHEM-NUCLEAR SYSTEMS	BARNWELL, SC	205.8	30380.00
02/17/93	CHEM-NUCLEAR SYSTEMS	BARNWELL, SC	105.0	434.60
02/22/93	CHEM-NUCLEAR SYSTEMS	BARNWELL, SC	205.8	36160.00
			2218.3	106686.97

## Solid RadWaste Semi-Annual Report

March 1993

Shipping Date =====	Carrier =====	Site =====	Volume =====	Millicuries =====
03/02/93	CHEM-NUCLEAR SYSTEMS	BARNWELL, SC	205.8	21750.00
03/03/93	RAY-TECH	CHANNAHON	600.0	31.78
03/09/93	CHEM-NUCLEAR SYSTEMS	BARNWELL, SC	205.8	19060.00
03/16/93	CHEM-NUCLEAR SYSTEMS	BARNWELL, SC	205.8	17130.00
03/23/93	CHEM-NUCLEAR SYSTEMS	BARNWELL, SC	120.3	70790.00
03/25/93	CHEM-NUCLEAR SYSTEMS	BARNWELL, SC	120.3	31060.00
			<hr/> 1458.0	<hr/> 159821.78

## Solid RadWaste Semi-Annual Report

April 1993

Shipping Date =====	Carrier =====	Site =====	Volume =====	Millicuries =====
04/01/93	RAY-TECH	CHANNAHON	780.0	85.09
04/08/93	CHEM-NUCLEAR SYSTEMS	BARNWELL, SC	207.4	2434.00
04/19/93	CHEM-NUCLEAR SYSTEMS	BARNWELL, SC	205.8	16700.00
04/20/93	CHEM-NUCLEAR SYSTEMS	BARNWELL, SC	170.8	18588.00
04/26/93	CHEM-NUCLEAR SYSTEMS	BARNWELL, SC	205.8	31620.00
			1569.8	69427.09

## Solid RadWaste Semi-Annual Report

May 1993

Shipping Date =====	Carrier =====	Site =====	Volume =====	Millicuries =====
05/03/93	CHEM-NUCLEAR SYSTEMS	BARNWELL, SC	205.8	34200.00
05/04/93	KINDRICK TRUCKING	QUADREX	2080.0	0.02
05/04/93	KINDRICK TRUCKING	QUADREX	2080.0	2.29
05/05/93	KINDRICK TRUCKING	QUADREX	660.0	38.16
05/10/93	CHEM-NUCLEAR SYSTEMS	BARNWELL, SC	205.8	34160.00
05/17/93	CHEM-NUCLEAR SYSTEMS	BARNWELL, SC	170.8	69630.00
05/19/93	KINDRICK TRUCKING	QUADREX	1290.1	74.78
05/26/93	CHEM-NUCLEAR SYSTEMS	BARNWELL, SC	207.4	738.50
			6899.9	138843.75

## Solid RadWaste Semi-Annual Report

June 1993

Shipping Date =====	Carrier =====	Site =====	Volume =====	Millicuries =====
06/11/93	CHEM-NUCLEAR SYSTEMS	BARNWELL, SC	105.0	198.10
06/16/93	CHEM-NUCLEAR SYSTEMS	BARNWELL, SC	120.3	189200.00
06/16/93	RAY-TECH	CHANNAHON	690.0	101.00
06/23/93	CHEM-NUCLEAR SYSTEMS	BARNWELL, SC	120.3	146400.00
06/28/93	CHEM-NUCLEAR SYSTEMS	BARNWELL, SC	120.3	152500.00
			<hr/> 1155.9	<hr/> 488399.10

January-March 1993  
196-33 ft. DIFFERENTIAL TEMPERATURE

January-March 1993  
196-33 ft. DIFFERENTIAL TEMPERATURE

### Wind Direction by Wind Speed

January-March 1993  
296-30 ft. DIFFERENTIAL TEMPERATURE



CFCO QUAD CITIES STATION  
296 ft. WIND SPEED and WIND DIRECTION

January-March 1993  
296-33 ft. DIFFERENTIAL TEMPERATURE

SPEED CLASS	WIND DIRECTION CLASSES																STABILITY CLASSES								
	N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	TOTAL	EU	MU	SU	N	SS	MS	ES	TOTAL
EU	.05	.00	.00	.00	.00	.00	.00	.00	.00	.05	.00	.05	.05	.15	.00	.10	.46	.46							
1 MU	.10	.00	.00	.00	.00	.05	.00	.00	.05	.00	.00	.10	.00	.05	.00	.05	.41		.41						
4 SU	.05	.05	.00	.00	.00	.05	.00	.10	.05	.00	.00	.05	.10	.05	.00	.05	.56			.56					
N	.15	.61	1.72	1.01	.86	.61	.56	.05	.00	.56	.00	.81	1.22	1.83	1.97	.25	11.67				11.67				
2 SS	.10	.00	.41	.25	.25	.25	.00	.05	.15	.36	.05	.05	.25	.20	.15	.00	2.54				2.54				
4 MS	.00	.05	.00	.00	.10	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.15					.15			
ES	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00							.00	
																									15.78

EU	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00							
6 MU	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00		.00						
7 SU	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00			.00					
N	.00	.05	.56	.46	.00	.00	.00	.00	.00	.10	.00	.30	.05	.15	.15	.00	1.83				1.83				
2 SS	.00	.00	.05	.00	.10	.10	.00	.10	.05	.30	.00	.00	.05	.00	.00	.00	.76				.76				
4 MS	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00					.00			
ES	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00							.00	
																									2.59

TOT 3.35 5.18 10.25 7.36 6.85 7.41 4.87 3.35 3.20 4.52 3.91 6.24 10.10 13.05 6.04 3.45 100.00 1.88 2.94 6.23 63.62 19.63 4.31 2.38 100.00

Wind Direction by Stability

N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	TOTAL	-STABILITY CLASSES-
.10	.05	.05	.00	.05	.05	.05	.00	.00	.05	.00	.20	.51	.41	.10	.25	1.88	Extremely Unstable
.41	.00	.00	.15	.00	.35	.20	.00	.20	.00	.05	.41	.56	.46	.05	.20	2.94	Moderately Unstable
.30	.25	.56	.36	.10	.30	.20	.20	.15	.10	.20	.41	1.01	.66	.10	.30	6.23	Slightly Unstable
1.78	3.50	7.26	4.67	4.51	4.21	2.56	1.42	.88	1.83	2.18	4.26	7.00	10.91	4.77	1.83	63.62	Neutral
.65	1.07	2.03	1.73	1.27	1.57	1.32	1.32	1.57	1.54	.66	.81	.96	1.27	.81	.66	19.63	Slightly Stable
.10	.25	.05	.25	.61	.71	.25	.20	.20	.76	.36	.15	.05	.15	.00	.20	4.31	Moderately Stable
.00	.05	.30	.20	.25	.30	.25	.20	.10	.25	.25	.00	.00	.10	.10	.00	2.38	Extremely Stable

Wind Direction by Wind Speed

N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	TOTAL	-WIND SPEED CLASSES-
.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	CALM
.20	.25	.25	.15	.10	.15	.35	.46	.10	.20	.61	.15	.30	.05	.15	.10	3.60	0.9 - 3.6 mph
.61	.96	1.27	1.01	.81	1.12	.91	.56	.71	.56	1.27	1.47	2.54	1.01	.66	.61	15.98	3.6 - 7.5 mph
.96	1.52	3.81	3.30	2.08	2.38	1.62	1.12	.81	1.07	1.37	1.27	2.59	4.11	1.37	1.07	30.54	7.6 - 12.5 mph
1.12	1.67	5.03	1.17	2.54	2.69	1.42	.81	1.27	1.32	.61	1.96	2.94	6.34	2.18	1.32	31.51	12.6 - 18.5 mph
.46	.71	2.18	1.27	1.22	.96	.56	.20	.25	.96	.05	1.07	1.62	2.28	1.52	.46	15.78	18.6 - 24.5 mph
.00	.05	.61	.46	.10	.10	.00	.10	.05	.41	.00	.30	.10	.15	.15	.00	2.59	> 24.5 mph

196-33 ft. DIFFERENTIAL TEMPERATURE

196-33 ft. DIFFERENTIAL TEMPERATURE

April-June 1993  
246-32 ft. DIFFERENTIAL TEMPERATURE

CECO QUAD CITIES STATION  
296 ft. WIND SPEED and WIND DIRECTION

April-June 1993  
296-33 ft. DIFFERENTIAL TEMPERATURE

SPEED CLASS	WIND DIRECTION CLASSES																STABILITY CLASS 2:								
	N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	TOTAL	EU	MU	SU	N	SI	MS	ES	TOTAL
EU	.00	.00	.00	.00	.00	.00	.09	.09	.27	.23	.00	.09	.00	.09	.05	.00	.62	.92							
1 MU	.05	.00	.00	.00	.00	.00	.09	.09	.14	.09	.00	.14	.00	.09	.00	.00	.69		.69						
9 SU	.00	.05	.00	.00	.05	.00	.23	.05	.09	.05	.05	.05	.00	.05	.00	.00	.64			.64					
N	.32	.92	.73	.32	.97	.73	.46	.55	.37	.27	.09	.23	.50	.55	.41	.41	7.24				7.24				
2 SS	.05	.05	.05	.05	.32	.55	.41	1.24	.64	.41	.09	.50	.09	.05	.05	.00	4.54					4.54			
4 MS	.00	.00	.00	.00	.09	.00	.18	.14	.00	.00	.00	.00	.00	.00	.00	.00	.41						.41		
ES	.00	.00	.00	.00	.00	.00	.14	.00	.00	.05	.00	.00	.00	.00	.00	.00	.18							.18	
																									14.62
EU	.00	.00	.00	.00	.00	.00	.00	.00	.23	.00	.00	.18	.00	.00	.00	.00	.41	.41							
6 MU	.00	.00	.00	.00	.00	.00	.00	.05	.00	.05	.00	.14	.00	.09	.00	.00	.32		.32						
7 SU	.00	.00	.00	.00	.00	.00	.00	.05	.00	.00	.00	.09	.00	.05	.00	.00	.18			.18					
N	.05	.46	.00	.05	.00	.18	.09	.18	.09	.05	.00	.00	.64	.92	.05	.00	2.25				2.25				
2 SS	.00	.00	.00	.00	.00	.05	.05	.18	.27	.00	.00	.00	.00	.00	.00	.00	.55					.55			
4 MS	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00						.00		
ES	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00							.00	
																									3.71
TOT	4.45	4.17	5.04	6.51	5.77	8.48	7.65	7.65	6.92	6.78	5.68	5.27	4.31	6.16	6.85	4.90	100.00	9.07	6.37	5.68	37.63	31.16	6.97	3.12	100.00

Wind Direction by Stability

N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	TOTAL	STABILITY CLASSES-
.46	.27	.27	.23	.41	.18	.14	.23	.78	.76	.50	.92	.69	1.28	1.19	.73	9.07	Extremely Unstable
.27	.69	.23	.32	.21	.41	.41	.50	.32	.64	.37	.69	.23	.69	.55	.37	6.37	Moderately Unstable
.37	.32	.32	.32	.37	.60	.55	.27	.37	.32	.46	.41	.00	.50	.37	.23	5.68	Slightly Unstable
3.15	2.57	2.56	3.35	1.82	3.53	2.93	2.47	1.85	2.25	1.24	1.37	1.88	2.93	2.93	1.88	37.63	Neutral
.67	.60	1.28	2.02	2.11	3.16	2.43	3.21	2.98	1.79	2.25	1.33	.96	2.02	2.64	1.33	31.16	Slightly Stable
.27	.32	.23	.27	.44	.32	.76	.78	.18	.37	.50	.32	.37	.50	.73	.37	6.97	Moderately Stable
.05	.00	.05	.00	.14	.27	.41	.18	.14	.64	.37	.23	.18	.23	.23	.00	3.12	Extremely Stable

Wind Direction by Wind Speed

N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	TOTAL	WIND SPEED CLASSES-
.00	.00	.00	.00	.00	.05	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.05	CALM
.05	.05	.05	.00	.18	.18	.09	.09	.09	.09	.18	.23	.14	.05	.05	.09	1.60	0.5 - 3.5 mph
.55	.69	.46	.69	.27	.64	.60	.73	.46	.73	1.42	.50	.55	1.15	1.51	.82	11.78	3.6 - 7.5 mph
1.74	1.19	1.97	3.62	2.43	2.29	2.52	1.51	1.05	1.70	2.25	1.01	1.37	3.15	3.44	1.74	33.00	7.6 - 12.5 mph
1.65	.78	1.70	1.79	2.06	4.80	2.70	2.70	2.61	3.07	1.62	2.11	1.01	2.32	3.30	1.83	35.24	12.6 - 18.5 mph
.41	1.01	.78	.37	.82	1.28	1.60	2.15	1.51	1.10	.23	1.01	.60	.82	.50	.41	14.62	18.6 - 24.5 mph
.05	.46	.08	.05	.00	.23	.14	.46	.80	.69	.00	.41	.64	.46	.05	.00	3.71	> 24.5 mph