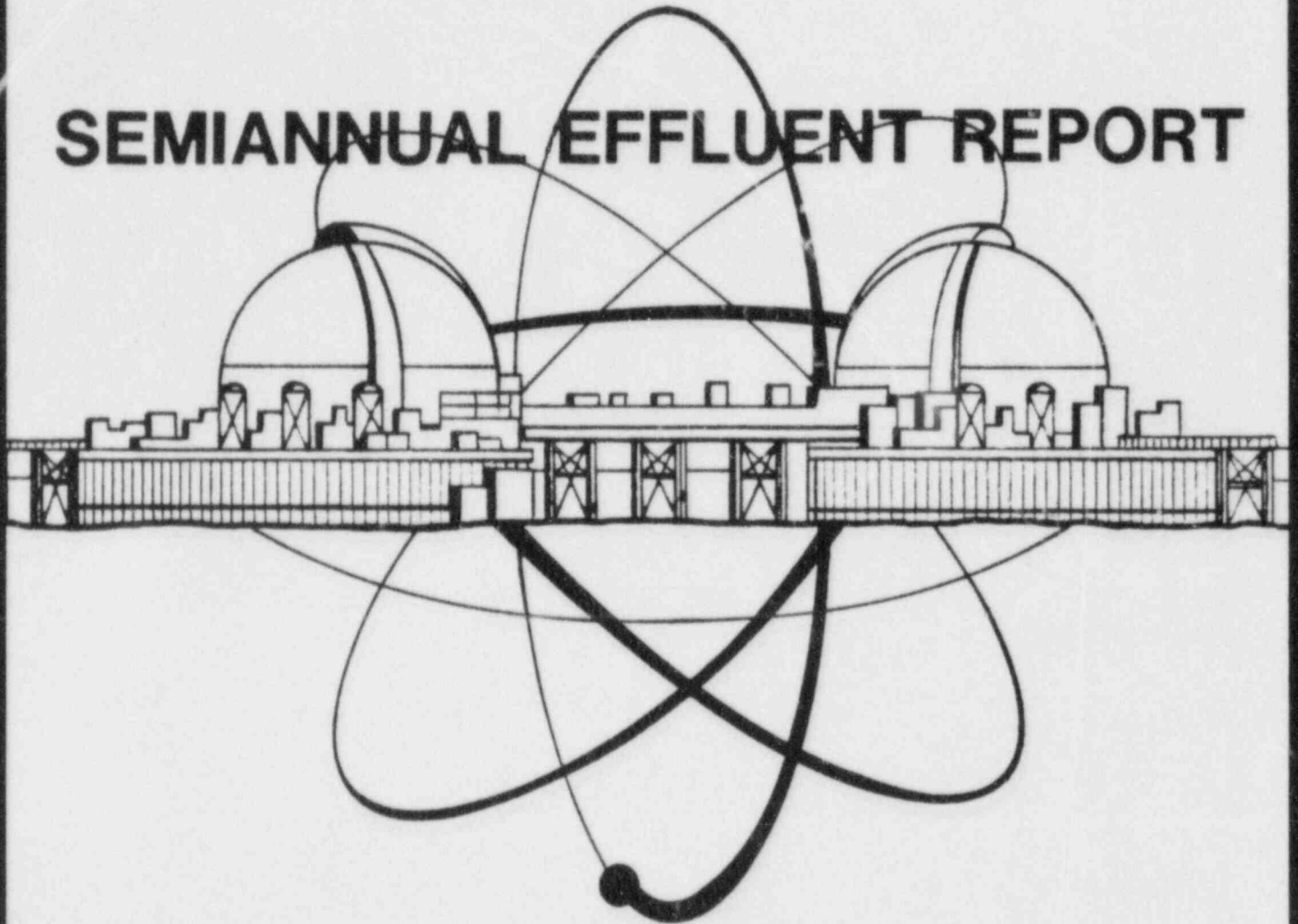


**SAN ONOFRE  
NUCLEAR GENERATING STATION  
UNITS 2 & 3**

**SEMIANNUAL EFFLUENT REPORT**



**SONGS - 2 & 3  
JULY - DECEMBER 1984**

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SEMIANNUAL EFFLUENT REPORT

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## SEMIANNUAL EFFLUENT REPORT

July - December 1984

### SECTION A INTRODUCTION

This Semiannual Report summarizes the gaseous and liquid radioactive effluent releases and radwaste shipments made from the San Onofre Nuclear Generating Station, Units 2 and 3. This report is prepared in the general format of USNRC Regulatory Guide 1.21 and includes:

1. Quarterly summaries of liquid and gaseous effluents for "batch" and "continuous" modes of release;
2. Percent of Technical Specification Limits;
3. Estimated total percent error;
4. Lower limit of detection concentrations;
5. Previous semiannual report addendum;
6. Meteorological data;
7. 10 CFR 50 Appendix I considerations;
8. 40 CFR 190 considerations;
9. Radwaste shipments.

## SECTION B GASEOUS EFFLUENTS

Table 1A, "Gaseous Effluents-Summation of All Releases," provides a detailed listing of gaseous effluents released quarterly in four categories: fission and activation gases, iodine-131, particulates with half-lives greater than eight days, and tritium. Listed for each of the four categories are: the total curies released, the average release rate, the percent of Technical Specification Limit (TSL), and the estimated total error. In addition, the particulate category lists the gross alphas radioactivity released for each quarter.

The methodology used in Table 1A to calculate the estimated total error is presented in Section G of this report.

Table 1B, "Gaseous Effluents-Elevated Release," has not been included in this report since San Onofre Nuclear Generating Station Units 2 and 3 do not conduct elevated releases.

Table 1C, "Gaseous Effluents-Ground-Level Releases," provides the systematic listing by radionuclide for the quantity of radioactivity released in three categories: fission gases, iodines, and particulates. The total radioactivity for each radionuclide is listed for each quarterly period by both "continuous" and "batch" modes of release.

Waste gas decay tank and calibration releases are considered to be "batch" releases. Containment purges, steam jet air ejector and plant stack releases are considered to be "continuous" releases.

Table 1D, "Gaseous Effluents-Lower Limit of Detection," provides a listing of lower limit of detection concentrations for radionuclides not detected in Table 1A and Table 1C.

Table 1E, "Gaseous Effluents - Radiation Doses at Site Boundary," provides a quarterly summary of doses at the site boundary for this report period.



Table 1A

EFFLUENT AND WASTE DISPOSAL SEMIANNUAL REPORT (1984)  
GASEOUS EFFLUENTS-SUMMATION OF ALL RELEASES

	Unit	Third Quarter	Fourth Quarter	Estimated Total Error, %
A. Fission and activation gases				
1. Total release	Ci	1.18E+4	9.09E+3	2.50E+1
2. Average release rate for period	uCi/sec	1.48E+3	1.14E+3	
3. Percent of technical specification limit	%	1.29E+1	1.10E+1	
=====				
B. Iodines				
1. Total iodine-131	Ci	3.59E-2	2.18E-2	1.90E+1
2. Average release rate for period	uCi/sec	4.52E-3	2.74E-3	
3. Percent of technical specification limit	%	1.08E-1	6.58E-2	
=====				
C. Particulates				
1. Particulates with half-lives > 8 days	Ci	9.57E-4	7.52E-4	1.60E+1
2. Average release rate for period	uCi/sec	1.20E-4	9.46E-5	
3. Percent of technical specification limit	%	1.78E-4	3.15E-4	
4. Gross alpha radioactivity	Ci	1.27E-6*	**	5.00E+1
=====				
D. Tritium				
1. Total release	Ci	1.46E+1	2.50E+2	2.50E+1
2. Average release rate for period	uCi/sec	1.84E+0	3.15E+1	
3. Percent of technical specification limit	%	2.20E-2	3.77E-1	
=====				

\* The July composite for monitor 3-7870 (Unit 3 steam jet air ejector) is not included in the above value; the sample was apparently lost by the offsite laboratory.

\*\* Fourth quarter analyses unavailable at report time; analysis will be included in the following Semiannual Report.

Table 1C

EFFLUENT AND WASTE DISPOSAL SEMIANNUAL REPORT (1984)  
GASEOUS EFFLUENTS - GROUND LEVEL RELEASES

Nuclides Released	Unit	Continuous Mode		Batch Mode	
		Third Quarter	Fourth Quarter	Third Quarter	Fourth Quarter
1. Fission gases					
argon-41	Ci	1.55E+0	2.22E+0	<LLD	<LLD
krypton-85	Ci	<LLD	<LLD	1.45E+1	3.13E+1
krypton-85m	Ci	2.21E+0	1.25E+1	<LLD	<LLD
krypton-87	Ci	2.07E-2	9.10E+0	<LLD	<LLD
krypton-88	Ci	2.28E+0	2.14E+1	<LLD	<LLD
xenon-131m	Ci	3.04E+1	4.25E+1	2.11E+1	2.16E+1
xenon-133	Ci	1.09E+4	8.06E+3	2.78E+2	1.95E+2
xenon-133m	Ci	2.98E+1	1.73E+1	4.78E+0	1.01E-1
xenon-135	Ci	4.99E+2	6.69E+2	1.03E-1	6.20E-1
xenon-135m	Ci	1.92E-1	3.96E+0	<LLD	<LLD
xenon-138	Ci	1.67E-1	1.08E+0	<LLD	<LLD
Total	Ci	1.15E+4	8.84E+3	3.18E+2	2.49E+2
=====					
2. Iodines					
iodine-131	Ci	3.59E-2	2.18E-2	<LLD	<LLD
iodine-132	Ci	7.38E-5	9.77E-6	<LLD	<LLD
iodine-133	Ci	1.08E-2	1.50E-3	<LLD	<LLD
iodine-135	Ci	7.30E-4	1.21E-4	<LLD	<LLD
Total	Ci	4.75E-2	2.34E-2	<LLD	<LLD
=====					

TABLE 1C (Continued)  
 EFFLUENT AND WASTE DISPOSAL SEMIANNUAL REPORT (1984)  
 GASEOUS EFFLUENTS - GROUND-LEVEL RELEASES

Nuclides Released	Unit	Continuous Mode		Batch Mode	
		Third Quarter	Fourth Quarter	Third Quarter	Fourth Quarter
3. Particulates					
barium-139	Ci	3.49E-6	1.68E-6	<LLD	<LLD
barium-140	Ci	2.47E-6	8.05E-9	<LLD	<LLD
bromine-82	Ci	8.32E-6	8.87E-6	<LLD	<LLD
cesium-134	Ci	4.59E-7	1.37E-5	<LLD	<LLD
cesium-136	Ci	1.21E-8	4.75E-9	<LLD	<LLD
cesium-137	Ci	7.76E-5	3.99E-5	<LLD	<LLD
cesium-138	Ci	<LLD	1.15E-3	<LLD	<LLD
chromium-51	Ci	1.90E-5	1.45E-4	<LLD	<LLD
cobalt-58	Ci	7.27E-4	3.00E-4	<LLD	<LLD
cobalt-60	Ci	<LLD	2.07E-4	<LLD	<LLD
iron-55	Ci	1.00E-4*	**	***	***
lanthanum-140	Ci	<LLD	6.58E-9	<LLD	<LLD
manganese-54	Ci	1.58E-5	3.91E-5	<LLD	<LLD
molybdenum-99	Ci	3.83E-5	<LLD	<LLD	<LLD
niobium-95	Ci	2.84E-8	4.48E-6	<LLD	<LLD
rubidium-88	Ci	1.88E-3	2.05E-4	<LLD	<LLD
sodium-24	Ci	8.06E-5	4.60E-6	<LLD	<LLD
strontium-89	Ci	1.43E-5*	**	***	***
strontium-90	Ci	2.51E-8*	**	***	***
technetium-99m	Ci	4.66E-5	<LLD	<LLD	<LLD
tellurium-132	Ci	7.99E-8	<LLD	<LLD	<LLD
zirconium-95	Ci	<LLD	3.29E-6	<LLD	<LLD

LLD = Lower Limit of Detection; See Table 1D.

- \* The July composite for monitor 3-7870 (Unit 3 Steam Jet Air Ejector) is not included in the above value; the sample was apparently lost by the offsite laboratory.
- \*\* Fourth quarter analyses were not available at time of report and will be reported in the following Semiannual Report.
- \*\*\* All gaseous releases made from SONGS Units 2 and 3 are vented through continuous discharge pathways, therefore, Sr-89, Sr-90, and Fe-55 are analyzed by "continuous" mode only

TABLE 1D

EFFLUENT AND WASTE DISPOSAL SEMIANNUAL REPORT (1984)  
 GASEOUS EFFLUENTS - LOWER LIMIT OF DETECTION

RADIONUCLIDES	CONTINUOUS MODE (uCi/cc)	BATCH MODE (uCi/cc)
argon-41	*	<3.00E-5
cesium-138	<2.00E-11	N/A
cobalt-60	<4.00E-12	N/A
iodine-131	*	N/A
iodine-132	*	N/A
iodine-133	*	N/A
iodine-135	*	N/A
krypton-85	<1.00E-4	*
krypton-85m	*	<2.00E-5
krypton-87	*	<3.00E-5
krypton-88	*	<3.00E-5
lanthanum-140	<4.00E-12	N/A
molybdenum-99	<1.00E-12	N/A
technetium-99m	<1.00E-12	N/A
tellurium-132	<2.00E-12	N/A
xenon-135m	*	<3.00E-5
xenon-138	*	<3.00E-5
zirconium-95	<6.00E-12	N/A

\* - Nuclide detected in Table 1C

N/A - Iodines and particulates are not analyzed prior to release.

TABLE 1E

EFFLUENT AND WASTE DISPOSAL SEMIANNUAL REPORT (1984)  
 GASEOUS EFFLUENTS - RADIATION DOSES AT THE SITE BOUNDARY

	Unit	Third Quarter	Fourth Quarter
A. Noble Gas			
1. Gamma air dose	mrads	3.80E+0	3.84E+0
2. Percent Technical Specification Limit	%	3.80E+1	3.84E+1
3. Beta air dose	mrads	1.00E+1	8.99E+0
4. Percent Technical Specification Limit	%	5.00E+1	4.50E+1
B. Tritium, Iodine, Particulate			
1. Organ dose	mrem	6.80E-1	4.12E-1
2. Percent Technical Specification Limit	%	4.53E+0	2.75E+0

NOTE: Calculations performed in accordance with the ODCM utilizing the historical X/Q.

## SECTION C. LIQUID EFFLUENTS

Table 2A, "Liquid Effluents - Summation of All Releases," provides a detailed summary of liquid effluents released quarterly in three categories: fission and activation products, tritium, and dissolved and entrained gases. Listed for each of the three categories are: (1) the total curies released, (2) the average diluted concentration, (3) the percent of applicable limit and (4) the total estimated error. In addition, Table 2A lists: (1) the gross alpha radioactivity, (2) the volume of waste released (prior to dilution), and (3) the volume of the dilution water.

The methodology used to calculate the percent of applicable limit is presented in Section F of this report. The methodology used to calculate the estimated total error in Table 2A is presented in Section G of this report.

Table 2B, "Liquid Effluents," provides the systematic listing by radionuclide for the quantity of radioactivity released in each category. The total radioactivity of each radionuclide released is listed for each quarterly period by both "continuous" and "batch" modes of release.

Table 2C, "Liquid Effluents - Lower Limit of Detection," provides a listing of lower limit of detection concentrations for radionuclides not detected in Table 2A and Table 2B.

Table 2D, "Liquid Effluents - Radiation Doses at the Site Boundary," presents a quarterly summary of doses at the site boundary for this report period.



TABLE 2A

EFFLUENT AND WASTE DISPOSAL SEMIANNUAL REPORT (1984)  
LIQUID EFFLUENTS - SUMMATION OF ALL RELEASES

	Unit	Third Quarter	Fourth Quarter	Estimated Total Error %	
A. Fission & activation products					
1.	Total release (not including tritium, gases, alpha)	Ci	4.67E+0	3.85E+0	1.90E+1
2.	Average diluted concentration during period	uCi/ml	6.06E-8	7.62E-8	
3.	Percent of applicable limit	%	2.21E+0	1.68E+0	
=====					
B. Tritium					
1.	Total release	Ci	9.04E+1	8.64E+1	1.90E+1
2.	Average diluted concentration during period	uCi/ml	1.17E-6	1.71E-6	
3.	Percent of applicable limit	%	3.90E-2	5.70E-2	
=====					
C. Dissolved and entrained gases					
1.	Total release	Ci	1.77E+1	1.52E+1	1.90E+1
2.	Average diluted concentration during period	uCi/ml	2.30E-7	3.01E-7	
3.	Percent of applicable limit	%	1.15E-1	1.51E-1	
=====					
D. Gross Alpha Radioactivity					
1.	Total release	Ci	LLD	*	5.00E+1
=====					
E. Volume of waste released (prior to dilution)					
	liters	1.17E+7	8.12E+6	5.00E+0	
=====					
F. Volume of dilution water used during period					
	liters	7.70E+10	5.05E+10	5.00E+0	
=====					

\* - Fourth quarter analyses unavailable at report time; analyses will be included in the following Semiannual Report.

LLD - Lower Limit of Detection; see Table 2C.



TABLE 2B

EFFLUENT AND WASTE DISPOSAL SEMIANNUAL REPORT (1984)  
LIQUID EFFLUENTS

Nuclides Released	Unit	Continuous Mode		Batch Mode	
		Third Quarter	Fourth Quarter	Third Quarter	Fourth Quarter
antimony-124	Ci	<LLD	<LLD	1.98E-2	3.07E-2
antimony-125	Ci	<LLD	<LLD	6.69E-3	2.84E-2
barium-140	Ci	<LLD	<LLD	<LLD	1.36E-4
cerium-141	Ci	<LLD	<LLD	7.41E-4	1.91E-2
cerium-144	Ci	<LLD	<LLD	2.20E-3	2.67E-2
cesium-134	Ci	4.94E-4	2.34E-4	2.15E-1	1.58E-1
cesium-136	Ci	1.35E-4	<LLD	1.59E-2	1.02E-2
cesium-137	Ci	2.05E-3	9.18E-4	9.72E-1	5.57E-1
cesium-138	Ci	<LLD	<LLD	2.50E-4	8.08E-4
chromium-51	Ci	<LLD	<LLD	9.36E-1	9.29E-1
cobalt-57	Ci	<LLD	<LLD	1.45E-3	2.00E-3
cobalt-58	Ci	1.63E-5	<LLD	1.32E+0	8.39E-1
cobalt-60	Ci	<LLD	<LLD	2.02E-1	2.49E-1
iodine-131	Ci	4.94E-3	2.38E-2	3.95E-1	1.43E-1
iodine-132	Ci	<LLD	<LLD	3.47E-5	<LLD
iodine-133	Ci	<LLD	2.69E-3	5.84E-2	7.12E-3
iodine-135	Ci	<LLD	<LLD	2.49E-3	1.72E-4
iron-55	Ci	<LLD	<LLD	2.61E-2	*
iron-59	Ci	<LLD	<LLD	9.00E-2	5.34E-2
lanthanum-140	Ci	<LLD	<LLD	2.74E-3	6.61E-3
manganese-54	Ci	<LLD	<LLD	8.84E-2	1.06E-1
molybdenum-99	Ci	<LLD	<LLD	6.84E-3	8.71E-3
neptunium-239	Ci	<LLD	<LLD	<LLD	1.08E-2
niobium-95	Ci	<LLD	<LLD	1.40E-1	3.12E-1
niobium-95m	Ci	<LLD	<LLD	<LLD	1.62E-4
niobium-97	Ci	<LLD	<LLD	6.82E-5	1.20E-4
rubidium-88	Ci	<LLD	<LLD	6.29E-3	5.68E-3
ruthenium-103	Ci	<LLD	<LLD	7.50E-3	4.46E-2
ruthenium-106	Ci	<LLD	<LLD	<LLD	1.08E-2
silver-110m	Ci	<LLD	<LLD	<LLD	6.08E-5
sodium-24	Ci	<LLD	<LLD	2.89E-2	2.52E-3
strontium-89	Ci	<LLD	<LLD	6.75E-4	*
strontium-90	Ci	<LLD	<LLD	<LLD	*
tantalum-182	Ci	<LLD	<LLD	<LLD	3.49E-4
technetium-99m	Ci	<LLD	9.06E-3	8.70E-3	1.30E-2
tellurium-132	Ci	<LLD	<LLD	4.94E-5	2.67E-5
tin-113	Ci	<LLD	<LLD	5.70E-3	1.53E-2
yttrium-91m	Ci	<LLD	<LLD	<LLD	1.36E-4
zinc-65	Ci	<LLD	<LLD	5.32E-3	8.68E-3
zirconium-95	Ci	<LLD	<LLD	9.58E-2	2.13E-1
zirconium-97	Ci	<LLD	<LLD	<LLD	3.99E-5
Total for period	Ci	7.64E-3	3.67E-2	4.66E+0	3.81E+0

TABLE 2B (Continued)

EFFLUENT AND WASTE DISPOSAL SEMIANNUAL REPORT (1984)  
LIQUID EFFLUENTS

Nuclides Released	Unit	Continuous Mode		Batch Mode	
		Third Quarter	Fourth Quarter	Third Quarter	Fourth Quarter
argon-41	Ci	<LLD	<LLD	9.46E-4	<LLD
krypton-85	Ci	<LLD	<LLD	7.54E-3	8.23E-2
krypton-85m	Ci	<LLD	<LLD	4.94E-3	1.24E-3
krypton-88	Ci	<LLD	<LLD	1.14E-2	1.58E-2
xenon-131m	Ci	<LLD	<LLD	3.03E-1	8.49E-1
xenon-133	Ci	5.26E-4	5.00E-4	1.68E+1	1.39E+1
xenon-133m	Ci	<LLD	<LLD	2.45E-1	2.03E-1
xenon-135	Ci	<LLD	<LLD	3.23E-1	1.39E-1
xenon-135m	Ci	<LLD	<LLD	<LLD	<LLD

\* - Fourth quarter analyses unavailable at report time; analyses will be included in the following Semiannual Report.

LLD - Lower Limit of Detection; see Table 2C.

TABLE 2C

EFFLUENT AND WASTE DISPOSAL SEMIANNUAL REPORT (1984)  
LIQUID EFFLUENTS - LOWER LIMIT OF DETECTION

RADIONUCLIDES	CONTINUOUS MODE (uCi/ml)	BATCH MODE (uCi/ml)
antimony-124	<6.00E-7	*
antimony-125	<3.00E-7	*
argon-41	<3.00E-7	<4.00E-7
barium-140	<5.00E-7	<2.00E-6
cerium-141	<3.00E-7	*
cerium-144	<5.00E-7	*
cesium-136	<3.00E-7	*
cesium-138	**	*
chromium-51	<8.00E-7	*
cobalt-57	<6.00E-8	*
cobalt-58	<2.00E-7	*
cobalt-60	<3.00E-7	*
krypton-85	<2.00E-5	*
krypton-85m	<5.00E-8	*
krypton-88	<2.00E-7	*
iodine-132	**	<5.00E-7
iodine-133	<4.00E-7	*
iodine-135	<3.00E-5	*
iron-55	<1.50E-7	*
iron-59	<5.00E-7	*
lanthanum-140	<5.00E-7	*
manganese-54	<2.00E-7	*
molybdenum-99	<8.00E-8	*
neptunium-239	<3.00E-7	<2.00E-6
niobium-95	<2.00E-7	*

TABLE 2C (Continued)

EFFLUENT AND WASTE DISPOSAL SEMIANNUAL REPORT (1984)  
LIQUID EFFLUENTS - LOWER LIMIT OF DETECTION

RADIONUCLIDES	CONTINUOUS MODE (uCi/ml)	BATCH MODE (uCi/ml)
niobium-95m	<3.00E-7	<2.00E-6
niobium-97	<6.00E-7	*
rubidium-88	**	*
ruthenium-103	<2.00E-7	*
ruthenium-106	<2.00E-6	<5.00E-6
silver-110m	<2.00E-7	<8.00E-6
sodium-24	<2.00E-6	*
strontium-89	<3.00E-8	*
strontium-90	<1.00E-8	<1.00E-6
tantalum-182	<6.00E-7	<8.00E-7
technetium-99m	<8.00E-8	*
tellurium-132	<8.00E-8	*
tin-113	<2.00E-7	*
yttrium-91m	**	<2.00E-6
zinc-65	<4.00E-7	*
zirconium-95	<3.00E-7	*
zirconium-97	<6.00E-7	<4.00E-7
xenon-131m	<2.00E-6	*
xenon-133m	<5.00E-7	*
xenon-135	<5.00E-7	*
xenon-135m	<3.00E-7	<2.00E-5
gross-alpha	<3.00E-8	<2.50E-6

\* - Nuclide detected in Table 2B.

\*\* - Weekly composite analysis will not detect this isotope.

TABLE 2D

EFFLUENT AND WASTE DISPOSAL SEMIANNUAL REPORT (1984)  
LIQUID EFFLUENT-RADIATION DOSES AT THE SITE BOUNDARY

	Unit	Third Quarter	Fourth Quarter
A.			
1. Total body dose	mrem	1.88E-1	1.24E-1
2. Percent Applicable Limit	%	6.27E+0	4.13E+0
B.			
1. Limit organ dose	mrem	2.61E+0	4.38E+0
2. Percent Applicable Limit	%	2.61E+1	4.38E+1

NOTE: The limiting organ for this report period is GI-LLI.



## SECTION D

## PREVIOUS SEMIANNUAL REPORT ADDENDUM

The January - June 1984 Semiannual Report values for composite Gross Alpha, Sr-89, Sr-90, and Fe-55 (Tables 1A and 1C, Gaseous Effluents, Table 2A and Table 2B, Liquid Effluents) were incomplete due to unavailable data at report time. The values not reported were for the second quarter of 1984. The values are as follows:

GASEOUS EFFLUENTS

Second Quarter

Nuclides Released	Unit	Continuous Mode	Batch Mode
strontium 89	Ci	1.13E-5	*
strontium 90	Ci	5.41E-8	*
iron-55	Ci	2.94E-5	*
Gross alpha	Ci	2.79E-6**	

LIQUID EFFLUENTS

(1)

Second Quarter

Nuclides Released	Unit	Continuous Mode	Batch Mode
strontium 89	Ci	<LLD	5.70E-4
strontium 90	Ci	<LLD	<LLD
iron-55	Ci	<LLD	3.57E-2
Gross alpha	Ci	<LLD**	

Sr-89 LLD = &lt;3.50E-8 uCi/ml

Sr-90 LLD = &lt;1.00E-8 uCi/ml

Fe-55 LLD = &lt;2.00E-8 uCi/ml

Gross alpha = &lt;2.50E-9 uCi/ml

\* - All gaseous releases made from SONGS Units 2 and 3 are vented through continuous discharge pathways, therefore, Sr-89, Sr-90, and Fe-55 are analyzed by "continuous" mode only.

\*\* - Gross alpha is reported as total activity released per quarter. See Tables 1A & 2A.

The values reported in the January - June 1984 Semiannual Report, for the composite gross alpha, Sr-89, Sr-90, and Fe-55 (Table 1A and Table 1C, Gaseous Effluents), for the July-December 1983 Semiannual Report on page 2 should be corrected as follows:

	Unit	
Gross alpha	Ci	7.72E-6
Fe-55	Ci	5.52E-5
Sr-89	Ci	6.25E-6
Sr-90	Ci	1.44E-6

(2)

## SECTION D

## PREVIOUS SEMIANNUAL REPORT ADDENDUM (Continued)

The values of page 3, Table 1A, should be corrected as follows:

Table 1A

EFFLUENT AND WASTE DISPOSAL SEMIANNUAL REPORT (1984)  
GASEOUS EFFLUENTS-SUMMATION OF ALL RELEASES

	Unit	First Quarter	Second Quarter	Estimated Total Error, %	
B. Iodines					
1. Total iodine-131	Ci	7.31E-2	2.77E-1	1.90E+1	
2. Average release rate for period	uCi/sec	9.30E-3	3.52E-2		(3)
3. Percent of technical specification limit	%	2.23E-1	8.45E-1		
=====					
C. Particulates					
1. Particulates with half-lives > 8 days	Ci	1.25E-3	8.73E-4	1.60E+1	
2. Average release rate for period	uCi/sec	1.59E-4	1.11E-4		(4)
3. Percent of technical specification limit	%	1.80E-4	2.66E-4		
4. Gross alpha radioactivity	Ci	3.16E-5	*	5.00E+1	(5)
=====					

The values on page 7, Table 1E, should be corrected as follows:

TABLE 1E

EFFLUENT AND WASTE DISPOSAL SEMIANNUAL REPORT (1984)  
GASEOUS EFFLUENTS - RADIATION DOSES AT THE SITE BOUNDARY

	Unit	First Quarter	Second Quarter	
A. Noble Gas				
1. Gamma air dose	mrads	1.73E+0	3.50E+0	
2. Percent Technical Specification Limit	%	1.73E+1	3.50E+1	
3. Beta air dose	mrads	5.11E+0	1.04E+1	(6)
4. Percent Technical Specification Limit	%	2.56E+1	5.18E+1	
=====				
B. Tritium, Iodine, Particulate				
1. Organ dose	mrem	1.38E+0	3.97E+0	
2. Percent Technical Specification Limit	%	9.20E+0	2.65E+1	
=====				



## SECTION D

## PREVIOUS SEMIANNUAL REPORT ADDENDUM (Continued)

The values on page 9, Table 2A, should be corrected as follows:

TABLE 2A

EFFLUENT AND WASTE DISPOSAL SEMIANNUAL REPORT (1984)  
LIQUID EFFLUENTS - SUMMATION OF ALL RELEASES

	Unit	First Quarter	Second Quarter	Estimated Total Error %
A. Fission & activation products				
1. Total release (not including tritium, gases, alpha)	Ci	1.93E+0	2.59E+0	1.90E+1
2. Average diluted concentration during period	uCi/ml	6.15E-8	3.79E-8	
3. Percent of applicable limit	%	1.30E+0	2.04E+0	
=====				
B. Tritium				
1. Total release	Ci	1.15E+2	1.63E+2	1.90E+1
2. Average diluted concentration during period	uCi/ml	3.72E-6	2.39E-6	
3. Percent of applicable limit	%	1.24E-1	7.97E-2	
=====				
C. Dissolved and Entrained Gases				
1. Total release	Ci	8.84E+0	2.92E+2	1.90E+1
2. Average diluted concentration during period	uCi/ml	2.86E-7	4.28E-6	
3. Percent of applicable limit	%	1.43E-1	2.14E+0	
=====				
D. Gross alpha radioactivity				
1. Total release	Ci	<LLD	*	5.00E+1
=====				
E. Volume of waste released (prior to dilution)				
	liters	6.04E+6	8.42E+6	
=====				
F. Volume of dilution water used during period				
	liters	3.09E+10	6.83E+10	
=====				

(7)

The values on pages 10 & 11, Table 2B, should be corrected as follows:

TABLE 2B

EFFLUENT AND WASTE DISPOSAL SEMIANNUAL REPORT (1984)  
LIQUID EFFLUENTS

Nuclides Released	Unit	Continuous Mode		Batch Mode	
		First Quarter	Second Quarter	First Quarter	Second Quarter
iodine-131	Ci	<LLD	1.14E-2	1.11E-1	3.91E-1
iodine-133	Ci	<LLD	2.77E-3	1.12E-2	2.11E-2
xenon-133	Ci	<LLD	1.68E-3	8.66E+0	2.82E+2

(8)

SECTION D PREVIOUS SEMIANNUAL REPORT ADDENDUM (Continued)

Explanation of Footnotes

- (1) June 1984, 2-7804 and 3-7870 composite results were not reported because the composites were misplaced during shipment or receipt at the off-site laboratory. Therefore, composite results were prorated using the May and June results.
- (2) Gross alpha, Fe-55, Sr-89, and Sr-90 values reported for the 4th quarter, 1983, were incorrect since the total summation should have included 80% composite results from 2/3-7808 and 20% composite results from 2(3)-7865.
- (3) The value for total curies released in Table 1A, Section B was incorrect; the value reported included the summation of all iodines released. The value reported should have included only total curies of iodine-131.
- (4) Niobium-95 was not included in Table 1A, Section C.
- (5) Gross alpha for the first quarter 1984 was incorrect; the total results should have included 25% composite results from 2/3-7808 and 75% composite results from 2(3)-7865.
- (6) Dose and Percentage of Technical Specification values were incorrect since doses, from releases by the Plant Vent Stack, were not included for 5 months of the January - June 1984 Semiannual Report.
- (7) The volume of the dilution for the first quarter was incorrect due to improper summation for the volume of dilution water. The volume of waste released and the volume of dilution water used for the second quarter were incorrect since the continuous volume release was not included in the total.
- (8) Second quarter continuous mode results for I-131, I-133, and Xe-133 did not include the values from the Turbine Plant Sumps.

SECTION E RADWASTE SHIPMENTS

TABLE 3

EFFLUENT AND WASTE DISPOSAL SEMIANNUAL REPORT (1984)  
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 <sup>3</sup>	3.57E+1	3.00E+1
	Ci	3.73E+2	
b. Dry compressible waste, contaminated equip. etc.	m <sup>3</sup>	7.26E+1	3.00E+1
	Ci	7.13E+0	
c. Irradiated components, control rods, etc.	m <sup>3</sup>	0.00E+0	
	Ci	0.00E+0	
d. Other (filters, sludge sand/rubble, wet trash)	m <sup>3</sup>	5.71E+1	3.00E+1
	Ci	6.84E+1	

\* Material shipped in 55 gal. D.O.T. 7A Type A Drums (7.5 ft<sup>3</sup> ea.) and steel boxes (strong tight containers - 98 ft<sup>3</sup> ea.)

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

a. carbon-14	%	1.84E-1
cerium-144	%	7.24E-3
cesium-134	%	9.04E+0
cesium-137	%	4.10E+1
cobalt-57	%	2.13E-2
cobalt-58	%	2.72E+1
cobalt-60	%	5.48E+0
chromium-51	%	3.52E-1
iron-59	%	4.22E+0
hydrogen-3	%	1.37E-3
iodine-129	%	8.06E-4
manganese-54	%	9.85E+0
nickel-63	%	2.15E+0
niobium-95	%	2.99E-1
strontium-90	%	5.24E-3
technetium-99	%	5.92E-4
zirconium-95	%	1.10E-1
zinc-65	%	3.70E-2

## SECTION E RADWASTE SHIPMENTS (Continued)

TABLE 3

b.	carbon-14	⊗	9.89E-1
	cesium-134	⊗	2.81E+0
	cesium-137	⊗	1.45E+1
	cobalt-58	⊗	3.34E+1
	cobalt-60	⊗	8.92E+0
	chromium-51	⊗	1.29E+1
	iron-59	⊗	2.33E+0
	hydrogen-3	⊗	2.77E+0
	iodine-129	⊗	3.83E-2
	iodine-131	⊗	6.07E+0
	manganese-54	⊗	3.61E+0
	nickel-63	⊗	2.20E+0
	niobium-95	⊗	5.54E+0
	technetium-99	⊗	6.72E-2
	zirconium-95	⊗	3.92E+0
c.	Not Applicable	⊗	0.00E+0
d.	carbon-14	⊗	8.18E-2
	cesium-134	⊗	4.23E-1
	cesium-137	⊗	2.05E+0
	cobalt-57	⊗	6.92E-2
	cobalt-58	⊗	3.68E+1
	cobalt-60	⊗	9.73E+0
	chromium-51	⊗	2.95E+1
	iron-59	⊗	3.08E+0
	hydrogen-3	⊗	1.74E-1
	iodine-129	⊗	4.18E-4
	iodine-131	⊗	8.57E-1
	manganese-54	⊗	3.86E+0
	nickel-63	⊗	3.71E+0
	niobium-95	⊗	5.67E+0
	antimony-124	⊗	6.32E-2
	antimony-125	⊗	8.06E-2
	technetium-99	⊗	2.04E-3
	zinc-65	⊗	3.65E-1
	zirconium-95	⊗	3.48E+0

SECTION E RADWASTE SHIPMENTS (Continued)

TABLE 3

3. Solid Waste Disposition

<u>Number of Shipments*</u>	<u>Mode of Transportation</u>	<u>Destination</u>
2	Hanck Transportation	Richland, WA
26	Chem-Nuclear System, Inc.	Richland, WA

B. IRRADIATED FUEL SHIPMENTS (Disposition)

<u>Number of Shipments</u>	<u>Mode of Transportation</u>	<u>Destination</u>
No shipments	N/A	N/A

\* - The number of shipments reflects shipments made from all three units at SONGS. All waste generated is packaged and delivered to a central staging area for shipment. There are no independent shipments made of dry active waste for Unit 1 or Units 2/3, and are not reported separately. Therefore the same data is reported in the Unit 1 Semiannual Report.

SECTION F. TECHNICAL SPECIFICATION LIMITS

Gaseous Effluents

The percent of Technical Specification Limit, tabulated in Table 1A, was determined by calculation of the following parameter:

$$\% \text{ TSL} = \frac{(\text{Rel Rate}) (X/Q) (100)}{\text{MPC}_{\text{eff}}}$$

Where: Rel Rate = total curies released in each category and each quarter, divided by the seconds in a quarter; this is the value in Parts A.2, B.2, C.2 and D.2 of Table 1A, converted to microcuries

$X/Q = 2.4E-5 \text{ sec/M}^3$  and is the annual average atmospheric dispersion defined in the ODCM, Rev. 13.

The  $\text{MPC}_{\text{eff}}$  is defined as:

$$\frac{1}{\sum_{i=1}^n \frac{F_i}{\text{MPC}_i}}$$

Where:  $F_i$  = fractional abundance of the  $i$ th radionuclide obtained by dividing the activity in curies for each radionuclide,  $C_i$ , by the sum of all such activities,  $C_T$ .

$n$  = total number of radionuclides identified

$\text{MPC}_i$  = MPC of the  $i$ th radionuclide

The % TSL is placed in Parts A.3, B.3, C.3 and D.3 of Table 1A



## Liquid Effluents

The percent of applicable limit, tabulated in Table 2A, was determined by calculation of the following parameter:

$$\% \text{ TSL} = \frac{(\text{Dil Conc}) (100)}{\text{MPC}_{\text{eff}}}$$

Where: Dil Conc = total curies released in each category and each quarter, converted to microcuries, divided by the total volume released (sum of Part E and F in Table 2A) converted to milliliters. This number is the value in Part A.2, B.2 and C.2 of Table 2A.

The  $\text{MPC}_{\text{eff}}$  is defined in the ODCM, Rev 14 as:

$$\frac{1}{\sum_{i=1}^n \frac{F_i}{\text{MPC}_i}}$$

Where:  $F_i$  = fractional abundance of the  $i$ th radionuclide obtained by dividing the activity in curies for each radionuclide,  $C_i$ , by the sum of all such activities,  $C_T$ .

$n$  = total number of radionuclides identified

$\text{MPC}_i$  = MPC of the  $i$ th radionuclide

The % TSL is placed in Parts A.3, B.3 and C.3 of Table 2A.



## SECTION G. ESTIMATION OF ERROR

Estimation of the error in reported values of gaseous and liquid effluents releases have been made. Sources of error considered for gaseous effluents - batch releases are: (1) tank volumes, (2) sampling errors, (3) counting errors, and (4) calibration errors. Sources of error for gaseous effluents - continuous releases are: (1) fan flow rate, (2) sampling, (3) counting, (4) calibration and (5) differential pressure drop.

Sources of error for liquid effluents - batch releases are: (1) tank volumes, (2) sampling, (3) counting and (4) calibration. Sources of error for liquid effluents - continuous releases are: (1) dilution water flow rate, (2) sampling, (3) counting and (4) calibration.

These sources of error are independent, and thus, the total error is calculated according to the following formula:

$$\text{Total Error} = \sqrt{\sigma_1^2 + \sigma_2^2 + \sigma_3^2 + \dots + \sigma_j^2}$$

Where:  $\sigma_i$  = Error associated with each component.

## SECTION H. METEOROLOGY

The meteorology of the SONGS-2/3 site for the year 1984, is described in this section. Meteorological measurements have been made according to the guidance set forth in USNRC Regulatory Guide 1.23, "Onsite Meteorological Programs." A summary report of the meteorological measurements taken during each calendar quarter are presented in Table 4A as joint frequency distribution (JFD) of wind direction and wind speed by atmospheric stability class.

Hourly meteorological data for batch releases have been recorded for the periods of actual release. This data is available, as well as the hourly data for the Semiannual Report, but has not been included in this report because of the bulk of data records.

Table 4A lists the joint frequency distribution for the year 1984. Each page of Table 4A represents the data for the stability Classes: A, B, C, D, E, F, and G; the last page of each table is the JFD with the combined stability classes. Each page is also divided into two parts; the upper part lists the number of hourly periods when each meteorology condition occurred, and the lower part lists the frequency of each classification by percent. The wind speeds have been measured at the 10-meter level, and the stability classes are defined by the temperature differential between the 10- and 40-meter levels.

TABLE 4A

SOUTHERN CALIFORNIA EDISON COMPANY  
 SAN ONOFRE NUCLEAR GENERATING STATION  
 1ST QUARTER, 1984  
 DAMES AND MOORE JOB NO - 00377-084-09  
 DATA PERIOD- 01/01/84 TO 03/31/84  
 STABILITY CLASS #A# (10-40 METERS )  
 WINDS AT 10 METER LEVEL

25-JUL-84

WIND FREQUENCY DISTRIBUTION  
 (FREQUENCY IN NUMBER OF OCCURRENCES)

WIND DIRECTION	UPPER CLASS INTERVALS OF WIND SPEED (MPH)											TOTAL	MEAN SPEED	
	1	2	3	4	5	6	7	8	9	10	11			>11
NNE	0	0	0	0	0	1	0	1	1	0	0	1	4	8.20
NE	0	0	0	0	0	0	0	1	0	0	0	0	1	7.40
ENE	0	0	0	0	0	0	1	0	0	0	0	0	1	6.90
E	0	0	0	0	0	0	0	0	0	0	0	1	1	12.40
ESE	0	0	0	0	0	0	0	0	0	0	0	0	0	0.00
SE	0	0	0	0	0	1	1	1	2	0	0	0	5	7.16
SSE	0	0	0	3	5	1	3	4	4	3	0	0	23	6.53
S	0	0	3	8	5	11	14	13	4	1	3	0	62	6.23
SSW	0	0	0	8	10	11	6	4	9	2	0	1	51	6.09
SW	0	0	6	14	20	15	7	8	0	0	0	0	70	4.98
WSW	0	0	2	19	26	19	16	4	1	0	0	4	91	5.46
W	0	0	1	10	32	45	28	20	7	5	4	2	154	6.15
WNW	0	0	0	3	7	13	16	9	7	10	3	9	77	7.88
NW	0	0	0	0	0	0	0	1	0	0	1	1	3	10.13
NNW	0	0	0	0	1	0	0	0	0	0	0	0	1	4.20
N	0	0	0	0	0	0	0	0	0	0	0	0	0	0.00
VARIABLE													0	0.00
CALM													0	0.00
TOTAL	0	0	12	55	106	117	92	56	35	21	11	19	544	6.20

WIND FREQUENCY DISTRIBUTION  
 (FREQUENCY IN PERCENT OF TOTAL)

WIND DIRECTION	UPPER CLASS INTERVALS OF WIND SPEED (MPH)											TOTAL	MEAN SPEED	
	1	2	3	4	5	6	7	8	9	10	11			>11
NNE	0.00	0.00	0.00	0.00	0.00	0.05	0.00	0.05	0.05	0.00	0.00	0.05	0.19	8.20
NE	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.05	0.00	0.00	0.00	0.00	0.05	7.40
ENE	0.00	0.00	0.00	0.00	0.00	0.00	0.05	0.00	0.00	0.00	0.00	0.00	0.05	6.90
E	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.05	0.05	12.40
ESE	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
SE	0.00	0.00	0.00	0.00	0.00	0.05	0.05	0.05	0.09	0.00	0.00	0.00	0.23	7.16
SSE	0.00	0.00	0.00	0.14	0.23	0.05	0.14	0.19	0.19	0.14	0.00	0.00	1.07	6.53
S	0.00	0.00	0.14	0.37	0.23	0.51	0.65	0.60	0.19	0.05	0.14	0.00	2.80	6.23
SSW	0.00	0.00	0.00	0.37	0.46	0.51	0.28	0.19	0.42	0.09	0.00	0.05	2.37	6.09
SW	0.00	0.00	0.28	0.65	0.93	0.70	0.33	0.37	0.00	0.00	0.00	0.00	3.25	4.98
WSW	0.00	0.00	0.07	0.88	1.21	0.88	0.74	0.19	0.05	0.00	0.00	0.19	4.23	5.46
W	0.00	0.00	0.05	0.46	1.49	2.09	1.30	0.93	0.33	0.23	0.19	0.09	7.16	6.15
WNW	0.00	0.00	0.00	0.14	0.33	0.60	0.74	0.42	0.33	0.46	0.14	0.42	3.50	7.88
NW	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.05	0.00	0.00	0.05	0.05	0.14	10.13
NNW	0.00	0.00	0.00	0.00	0.05	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.05	4.20
N	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
VARIABLE													0.00	0.00
CALM													0.00	0.00
TOTAL	0.00	0.00	0.56	3.02	4.93	5.44	4.28	3.07	1.63	0.98	0.51	0.88	25.29	6.20

TOTAL NUMBER OF POSSIBLE OBSERVATIONS - 2184

TOTAL NUMBER OF OBSERVATIONS WITH VALID SPEED, DIRECTION AND STABILITY - 2152

TABLE 4A

SOUTHERN CALIFORNIA EDISON COMPANY  
 SAN ONOFRE NUCLEAR GENERATING STATION  
 1ST QUARTER, 1984  
 DAMES AND MOORE JOB NO - 00377-084-09  
 DATA PERIOD- 01/01/84 TO 03/31/84  
 STABILITY CLASS #B# (10-40 METERS )  
 WINDS AT 10 METER LEVEL

25-JUL-84

WIND FREQUENCY DISTRIBUTION  
 (FREQUENCY IN NUMBER OF OCCURRENCES)

WIND DIRECTION	UPPER CLASS INTERVALS OF WIND SPEED (MPH)												TOTAL	MEAN SPEED
	1	2	3	4	5	6	7	8	9	10	11	>11		
NNE	0	0	0	0	0	0	0	0	1	0	0	1	2	17.40
NE	0	0	0	0	0	0	0	0	1	0	0	0	1	8.60
ENE	0	0	0	0	0	0	0	0	0	0	0	0	0	0.00
E	0	0	0	0	0	0	0	0	0	0	0	0	0	0.00
ESE	0	0	0	0	0	0	0	0	0	0	0	0	0	0.00
SE	0	0	0	0	0	0	0	0	0	0	0	0	0	0.00
SSE	0	0	2	0	0	0	2	0	0	0	1	0	5	5.72
S	0	0	0	0	0	0	0	0	0	0	0	0	0	0.00
SSW	0	0	1	0	0	0	0	0	0	0	0	0	1	3.00
SW	0	0	0	0	0	0	0	0	0	0	0	0	0	0.00
WSW	0	0	0	0	0	0	0	0	0	0	0	0	0	0.00
W	0	0	0	0	1	0	1	0	0	0	0	0	2	5.45
WNW	0	0	0	0	1	0	1	1	0	0	0	0	3	6.43
NW	0	0	0	0	0	0	0	0	0	0	0	0	0	0.00
NNW	0	0	0	1	0	0	0	1	0	0	0	0	2	5.90
N	0	0	0	0	0	0	0	0	0	0	0	0	0	0.00
VARIABLE													0	0.00
CALM													0	0.00
TOTAL	0	0	3	1	2	0	4	2	2	0	1	1	16	7.31

WIND FREQUENCY DISTRIBUTION  
 (FREQUENCY IN PERCENT OF TOTAL)

WIND DIRECTION	UPPER CLASS INTERVALS OF WIND SPEED (MPH)												TOTAL	MEAN SPEED
	1	2	3	4	5	6	7	8	9	10	11	>11		
NNE	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.05	0.00	0.00	0.05	0.07	17.40
NE	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.05	0.00	0.00	0.00	0.05	8.60
ENE	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
E	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
ESE	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
SE	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
SSE	0.00	0.00	0.09	0.00	0.00	0.00	0.09	0.00	0.00	0.00	0.05	0.00	0.23	5.72
S	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
SSW	0.00	0.00	0.05	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.05	3.00
SW	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
WSW	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
W	0.00	0.00	0.00	0.00	0.05	0.00	0.05	0.00	0.00	0.00	0.00	0.00	0.09	5.45
WNW	0.00	0.00	0.00	0.00	0.05	0.00	0.05	0.05	0.00	0.00	0.00	0.00	0.14	6.43
NW	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
NNW	0.00	0.00	0.00	0.05	0.00	0.00	0.00	0.05	0.00	0.00	0.00	0.00	0.09	5.90
N	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
VARIABLE													0.00	0.00
CALM													0.00	0.00
TOTAL	0.00	0.00	0.14	0.05	0.09	0.00	0.19	0.09	0.09	0.00	0.05	0.05	0.74	7.31

TOTAL NUMBER OF POSSIBLE OBSERVATIONS - 2184  
 TOTAL NUMBER OF OBSERVATIONS WITH VALID SPEED, DIRECTION AND STABILITY - 2152

TABLE 4A

SOUTHERN CALIFORNIA EDISON COMPANY  
 SAN ONOFRE NUCLEAR GENERATING STATION  
 1ST QUARTER, 1984  
 DAMES AND MOORE JOB NO - 00377-084-09  
 DATA PERIOD- 01/01/84 TO 03/31/84  
 STABILITY CLASS #C# (10-40 METERS )  
 WINDS AT 10 METER LEVEL

25-JUL-84

WIND FREQUENCY DISTRIBUTION  
 (FREQUENCY IN NUMBER OF OCCURRENCES)

WIND DIRECTION	UPPER CLASS INTERVALS OF WIND SPEED (MPH)												TOTAL	MEAN SPEED
	1	2	3	4	5	6	7	8	9	10	11	>11		
NNE	0	0	0	0	0	0	2	0	0	0	0	1	3	10.27
NE	0	0	0	0	0	1	0	0	0	0	0	0	1	5.10
ENE	0	0	0	0	0	0	0	0	0	0	0	0	0	0.00
E	0	0	0	0	0	0	0	0	0	0	0	0	0	0.00
ESE	0	0	0	0	0	0	0	0	0	0	0	0	0	0.00
SE	0	0	0	0	0	0	0	0	1	2	0	0	3	9.53
SSE	0	0	1	1	0	2	1	1	3	0	0	0	9	6.38
S	0	0	1	0	1	0	0	1	0	1	0	0	4	6.43
SSW	0	0	1	0	1	0	1	2	1	0	0	1	7	7.21
SW	0	0	1	1	1	0	0	0	0	0	0	0	3	3.47
WSW	0	0	0	0	2	0	0	0	0	0	0	0	2	4.30
W	0	0	2	0	0	1	0	0	0	0	0	1	4	7.08
WNW	0	0	0	1	1	3	1	1	1	0	1	1	10	7.37
NW	0	0	0	1	1	2	1	0	0	0	0	0	5	5.04
NNW	0	0	0	0	0	0	0	0	0	0	0	0	0	0.00
N	0	0	0	0	1	0	0	0	0	0	0	1	2	8.50
VARIABLE													0	0.00
CALM													0	0.00
TOTAL	0	0	6	4	8	9	6	5	6	3	1	5	53	6.82

WIND FREQUENCY DISTRIBUTION  
 (FREQUENCY IN PERCENT OF TOTAL)

WIND DIRECTION	UPPER CLASS INTERVALS OF WIND SPEED (MPH)												TOTAL	MEAN SPEED
	1	2	3	4	5	6	7	8	9	10	11	>11		
NNE	0.00	0.00	0.00	0.00	0.00	0.00	0.09	0.00	0.00	0.00	0.00	0.05	0.14	10.27
NE	0.00	0.00	0.00	0.00	0.00	0.05	0.00	0.00	0.00	0.00	0.00	0.00	0.05	5.10
ENE	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
E	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
ESE	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
SE	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.05	0.09	0.00	0.00	0.14	9.53
SSE	0.00	0.00	0.05	0.05	0.00	0.09	0.05	0.05	0.14	0.00	0.00	0.00	0.42	6.38
S	0.00	0.00	0.05	0.00	0.05	0.00	0.00	0.05	0.00	0.05	0.00	0.00	0.17	6.43
SSW	0.00	0.00	0.05	0.00	0.05	0.00	0.05	0.09	0.05	0.00	0.00	0.05	0.33	7.21
SW	0.00	0.00	0.05	0.05	0.05	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.14	3.47
WSW	0.00	0.00	0.00	0.00	0.09	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.07	4.30
W	0.00	0.00	0.09	0.00	0.00	0.05	0.00	0.00	0.00	0.00	0.00	0.05	0.17	7.08
WNW	0.00	0.00	0.00	0.05	0.05	0.14	0.05	0.05	0.05	0.00	0.05	0.05	0.46	7.37
NW	0.00	0.00	0.00	0.05	0.05	0.09	0.05	0.00	0.00	0.00	0.00	0.00	0.23	5.04
NNW	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
N	0.00	0.00	0.00	0.00	0.05	0.00	0.00	0.00	0.00	0.00	0.00	0.05	0.09	8.50
VARIABLE													0.00	0.00
CALM													0.00	0.00
TOTAL	0.00	0.00	0.28	0.19	0.37	0.42	0.28	0.23	0.28	0.14	0.05	0.23	2.46	6.82

TOTAL NUMBER OF POSSIBLE OBSERVATIONS - 2184  
 TOTAL NUMBER OF OBSERVATIONS WITH VALID SPEED, DIRECTION AND STABILITY - 2152



TABLE 4A

SOUTHERN CALIFORNIA EDISON COMPANY  
 SAN ONOFRE NUCLEAR GENERATING STATION  
 1ST QUARTER, 1984  
 DAMES AND MOORE JOB NO - 00377-084-09  
 DATA PERIOD- 01/01/84 TO 03/31/84  
 STABILITY CLASS #DM (10-40 METERS )  
 WINDS AT 10 MEETER LEVEL

25-JUL-84

WIND FREQUENCY DISTRIBUTION  
 (FREQUENCY IN NUMBER OF OCCURRENCES)

WIND DIRECTION	UPPER CLASS INTERVALS OF WIND SPEED (MPH)											TOTAL	MEAN SPEED	
	1	2	3	4	5	6	7	8	9	10	11			>11
NNE	0	1	2	5	2	0	3	3	2	0	0	5	23	7.09
NE	0	0	0	2	0	0	1	0	1	0	0	3	7	8.10
ENE	0	0	0	0	1	1	1	0	0	0	0	0	3	5.50
E	1	0	0	0	2	2	4	2	0	0	0	1	12	6.07
ESE	1	0	0	1	0	0	5	5	1	0	0	0	13	6.53
SE	0	0	0	8	4	8	7	6	4	6	4	1	48	6.87
SSE	0	0	3	6	5	5	2	3	0	6	0	0	30	5.77
S	0	0	3	1	5	3	1	4	1	1	1	0	20	5.89
SSW	0	0	1	1	2	1	0	1	0	0	0	0	6	4.55
SW	0	2	2	2	2	1	0	0	0	0	0	0	9	3.26
WSW	0	0	3	3	0	0	1	0	0	3	1	2	13	7.06
W	0	0	2	3	6	2	1	0	0	0	0	2	16	6.01
WNW	0	1	1	4	4	6	2	0	1	1	0	4	24	6.91
NW	0	0	4	6	4	4	6	3	0	0	0	1	28	5.27
NNW	0	0	2	4	5	7	1	1	0	0	0	0	20	4.79
N	0	3	0	0	4	1	0	0	0	1	0	0	9	4.28
VARIABLE CALM													0	0.00
TOTAL	2	7	23	46	46	41	35	28	10	18	6	19	281	6.07

WIND FREQUENCY DISTRIBUTION  
 (FREQUENCY IN PERCENT OF TOTAL)

WIND DIRECTION	UPPER CLASS INTERVALS OF WIND SPEED (MPH)											TOTAL	MEAN SPEED	
	1	2	3	4	5	6	7	8	9	10	11			>11
NNE	0.00	0.05	0.09	0.23	0.09	0.00	0.14	0.14	0.09	0.00	0.00	0.23	1.07	7.09
NE	0.00	0.00	0.00	0.09	0.00	0.00	0.05	0.00	0.05	0.00	0.00	0.14	0.33	8.10
ENE	0.00	0.00	0.00	0.00	0.05	0.05	0.05	0.00	0.00	0.00	0.00	0.00	0.14	5.50
E	0.05	0.00	0.00	0.00	0.09	0.09	0.19	0.09	0.00	0.00	0.00	0.05	0.56	6.07
ESE	0.05	0.00	0.00	0.05	0.00	0.00	0.23	0.23	0.05	0.00	0.00	0.00	0.60	6.53
SE	0.00	0.00	0.00	0.37	0.19	0.37	0.33	0.28	0.19	0.28	0.19	0.05	2.23	6.87
SSE	0.00	0.00	0.14	0.28	0.23	0.23	0.09	0.14	0.00	0.28	0.00	0.00	1.39	5.77
S	0.00	0.00	0.14	0.05	0.23	0.14	0.05	0.19	0.05	0.05	0.05	0.00	0.93	5.89
SSW	0.00	0.00	0.05	0.05	0.09	0.05	0.00	0.05	0.00	0.00	0.00	0.00	0.28	4.55
SW	0.00	0.09	0.09	0.09	0.09	0.05	0.00	0.00	0.00	0.00	0.00	0.00	0.42	3.26
WSW	0.00	0.00	0.14	0.14	0.00	0.00	0.05	0.00	0.00	0.14	0.05	0.09	0.60	7.06
W	0.00	0.00	0.09	0.14	0.28	0.09	0.05	0.00	0.00	0.00	0.00	0.09	0.74	6.01
WNW	0.00	0.05	0.05	0.19	0.19	0.28	0.09	0.00	0.05	0.05	0.00	0.19	1.12	6.91
NW	0.00	0.00	0.19	0.28	0.19	0.19	0.28	0.14	0.00	0.00	0.00	0.05	1.30	5.27
NNW	0.00	0.00	0.09	0.19	0.23	0.33	0.05	0.05	0.00	0.00	0.00	0.00	0.93	4.79
N	0.00	0.14	0.00	0.00	0.19	0.05	0.00	0.00	0.00	0.05	0.00	0.00	0.42	4.28
VARIABLE CALM													0.00	0.00
TOTAL	0.09	0.33	1.07	2.14	2.14	1.91	1.63	1.30	0.46	0.84	0.28	0.88	13.06	6.07

TOTAL NUMBER OF POSSIBLE OBSERVATIONS - 2184

TOTAL NUMBER OF OBSERVATIONS WITH VALID SPEED, DIRECTION AND STABILITY - 2152

TABLE 4A

SOUTHERN CALIFORNIA EDISON COMPANY  
 SAN ONOFRE NUCLEAR GENERATING STATION  
 1ST QUARTER, 1984  
 DAMES AND MOORE JOB NO - 00377-084-09  
 DATA PERIOD- 01/01/84 TO 03/31/84  
 STABILITY CLASS AEM (10-40 METERS )  
 WINDS AT 10 MEIER LEVEL

25-JUL-84

WIND FREQUENCY DISTRIBUTION  
 (FREQUENCY IN NUMBER OF OCCURRENCES)

WIND DIRECTION	UPPER CLASS INTERVALS OF WIND SPEED (MPH)											TOTAL	MEAN SPEED	
	1	2	3	4	5	6	7	8	9	10	11			>11
NNE	0	2	18	18	22	16	5	1	0	4	1	5	92	4.79
NE	0	2	3	3	2	3	0	0	1	0	0	8	22	7.99
ENE	0	1	2	2	1	1	2	0	1	1	0	0	11	5.00
E	0	0	2	0	4	3	0	0	0	1	0	0	10	4.98
ESE	0	0	1	2	1	2	1	0	0	0	0	0	7	4.47
SE	0	0	0	1	4	3	1	0	0	0	0	0	9	5.01
SSE	0	0	1	2	3	4	1	0	0	0	0	0	11	4.77
S	0	0	2	1	0	0	1	0	0	0	0	0	4	3.75
SGW	0	0	2	0	0	0	0	0	0	0	0	0	2	2.75
SW	0	0	3	0	1	0	1	0	0	0	0	0	5	3.70
WSW	0	0	1	0	1	0	0	0	1	0	0	0	3	5.20
W	0	0	0	4	1	4	0	0	0	0	0	0	9	4.48
WNW	0	0	1	2	6	3	3	1	1	0	0	0	17	5.18
NW	0	0	1	0	1	3	4	0	0	1	0	0	10	5.80
NNW	0	1	1	7	1	4	7	2	1	1	0	1	26	5.55
N	0	3	1	8	4	4	7	1	1	0	1	1	31	5.14
VARIABLE													0	0.00
CALM													0	0.00
TOTAL	0	9	39	50	52	50	33	5	6	8	2	15	269	5.25

WIND FREQUENCY DISTRIBUTION  
 (FREQUENCY IN PERCENT OF TOTAL)

WIND DIRECTION	UPPER CLASS INTERVALS OF WIND SPEED (MPH)											TOTAL	MEAN SPEED	
	1	2	3	4	5	6	7	8	9	10	11			>11
NNE	0.00	0.09	0.84	0.84	1.02	0.74	0.23	0.05	0.00	0.19	0.05	0.23	4.28	4.79
NE	0.00	0.09	0.14	0.14	0.09	0.14	0.00	0.00	0.05	0.00	0.00	0.37	1.02	7.99
ENE	0.00	0.05	0.09	0.09	0.05	0.05	0.09	0.00	0.05	0.05	0.00	0.00	0.51	5.00
E	0.00	0.00	0.09	0.00	0.19	0.14	0.00	0.00	0.00	0.05	0.00	0.00	0.46	4.98
ESE	0.00	0.00	0.05	0.09	0.05	0.09	0.05	0.00	0.00	0.00	0.00	0.00	0.33	4.47
SE	0.00	0.00	0.00	0.05	0.19	0.14	0.05	0.00	0.00	0.00	0.00	0.00	0.42	5.01
SSE	0.00	0.00	0.05	0.09	0.14	0.19	0.05	0.00	0.00	0.00	0.00	0.00	0.51	4.77
S	0.00	0.00	0.09	0.05	0.00	0.00	0.05	0.00	0.00	0.00	0.00	0.00	0.19	3.75
SGW	0.00	0.00	0.09	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.07	2.75
SW	0.00	0.00	0.14	0.00	0.05	0.00	0.05	0.00	0.00	0.00	0.00	0.00	0.23	3.70
WSW	0.00	0.00	0.05	0.00	0.05	0.00	0.00	0.00	0.05	0.00	0.00	0.00	0.14	5.20
W	0.00	0.00	0.00	0.19	0.05	0.19	0.00	0.00	0.00	0.00	0.00	0.00	0.42	4.48
WNW	0.00	0.00	0.05	0.09	0.28	0.14	0.14	0.05	0.05	0.00	0.00	0.00	0.79	5.18
NW	0.00	0.00	0.05	0.00	0.05	0.14	0.19	0.00	0.00	0.05	0.00	0.00	0.46	5.80
NNW	0.00	0.05	0.05	0.33	0.05	0.19	0.33	0.09	0.05	0.05	0.00	0.05	1.21	5.55
N	0.00	0.14	0.05	0.37	0.19	0.19	0.33	0.05	0.05	0.00	0.05	0.05	1.44	5.14
VARIABLE													0.00	0.00
CALM													0.00	0.00
TOTAL	0.00	0.42	1.81	2.32	2.42	2.32	1.53	0.23	0.28	0.37	0.09	0.70	12.50	5.25

TOTAL NUMBER OF POSSIBLE OBSERVATIONS - 2184  
 TOTAL NUMBER OF OBSERVATIONS WITH VALID SPEED, DIRECTION AND STABILITY - 2152



TABLE 4A

SOUTHERN CALIFORNIA EDISON COMPANY  
 SAN ONOFRE NUCLEAR GENERATING STATION  
 1ST QUARTER, 1984  
 DAMES AND MOORE JOB NO - 00377-084-09  
 DATA PERIOD- 01/01/84 TO 03/31/84  
 STABILITY CLASS #F# (10-40 METERS )  
 WINDS AT 10 METER LEVEL

25-JUL-84

WIND FREQUENCY DISTRIBUTION  
 (FREQUENCY IN NUMBER OF OCCURRENCES)

WIND DIRECTION	UPPER CLASS INTERVALS OF WIND SPEED (MPH)												TOTAL	MEAN SPEED
	1	2	3	4	5	6	7	8	9	10	11	>11		
NNE	0	3	13	34	37	37	28	11	5	5	6	8	187	5.59
NE	0	0	11	6	4	4	2	1	0	1	1	4	34	5.36
ENE	0	4	1	4	2	1	1	1	0	0	0	0	14	3.81
E	0	0	1	1	1	1	0	0	0	0	0	0	4	3.93
ESE	0	1	4	1	0	2	2	0	0	0	0	0	10	3.79
SE	0	0	0	0	1	1	0	0	0	0	0	0	2	5.30
SSE	0	1	2	2	0	0	0	0	0	0	0	0	5	2.98
S	0	0	4	0	0	0	0	0	0	0	0	0	4	2.53
SSW	0	0	2	0	0	0	0	0	0	0	0	0	2	2.55
SW	0	0	1	0	1	0	0	0	0	0	0	0	2	3.50
WSW	0	1	1	0	0	0	0	0	0	0	0	0	2	2.05
W	0	0	0	2	1	1	0	0	0	0	0	0	4	4.00
WNW	0	0	0	0	0	2	2	0	0	0	0	0	4	6.05
NW	0	0	1	1	0	2	0	1	0	0	0	0	5	5.08
NNW	0	0	1	1	3	0	1	0	0	0	0	0	6	4.15
N	0	0	2	5	9	8	5	6	1	4	0	0	40	5.86
VARIABLE													0	0.00
CALM													0	0.00
TOTAL	0	10	44	57	59	59	41	20	6	10	7	12	325	5.27

WIND FREQUENCY DISTRIBUTION  
 (FREQUENCY IN PERCENT OF TOTAL)

WIND DIRECTION	UPPER CLASS INTERVALS OF WIND SPEED (MPH)												TOTAL	MEAN SPEED
	1	2	3	4	5	6	7	8	9	10	11	>11		
NNE	0.00	0.14	0.60	1.58	1.72	1.72	1.30	0.31	0.23	0.23	0.28	0.37	8.69	5.59
NE	0.00	0.00	0.31	0.28	0.19	0.19	0.09	0.03	0.00	0.03	0.03	0.19	1.58	5.36
ENE	0.00	0.19	0.05	0.19	0.09	0.05	0.05	0.05	0.00	0.00	0.00	0.00	0.65	3.81
E	0.00	0.00	0.05	0.05	0.05	0.05	0.00	0.00	0.00	0.00	0.00	0.00	0.19	3.93
ESE	0.00	0.05	0.19	0.05	0.00	0.09	0.09	0.00	0.00	0.00	0.00	0.00	0.46	3.79
SE	0.00	0.00	0.00	0.00	0.05	0.05	0.00	0.00	0.00	0.00	0.00	0.00	0.09	5.30
SSE	0.00	0.05	0.09	0.09	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.23	2.98
S	0.00	0.00	0.19	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.19	2.53
SSW	0.00	0.00	0.09	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.09	2.55
SW	0.00	0.00	0.05	0.00	0.05	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.09	3.50
WSW	0.00	0.05	0.05	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.09	2.05
W	0.00	0.00	0.00	0.09	0.05	0.05	0.00	0.00	0.00	0.00	0.00	0.00	0.19	4.00
WNW	0.00	0.00	0.00	0.00	0.00	0.09	0.09	0.00	0.00	0.00	0.00	0.00	0.19	6.05
NW	0.00	0.00	0.05	0.05	0.00	0.09	0.00	0.05	0.00	0.00	0.00	0.00	0.23	5.08
NNW	0.00	0.00	0.05	0.05	0.14	0.00	0.05	0.00	0.00	0.00	0.00	0.00	0.29	4.15
N	0.00	0.00	0.09	0.23	0.42	0.37	0.23	0.28	0.05	0.19	0.00	0.00	1.86	5.86
VARIABLE													0.00	0.00
CALM													0.00	0.00
TOTAL	0.00	0.46	2.04	2.65	2.74	2.74	1.91	0.93	0.28	0.46	0.33	0.56	15.10	5.27

TOTAL NUMBER OF POSSIBLE OBSERVATIONS - 2184  
 TOTAL NUMBER OF OBSERVATIONS WITH VALID SPEED, DIRECTION AND STABILITY - 2152

TABLE 4A

SOUTHERN CALIFORNIA EDISON COMPANY  
 SAN ONOFRE NUCLEAR GENERATING STATION  
 1ST QUARTER, 1984  
 DAMES AND MOORE JOB NO - 00377-084-09  
 DATA PERIOD- 01/01/84 TO 03/31/84  
 STABILITY CLASS \*G\* (10-40 METERS )  
 WINDS AT 10 METER LEVEL

25-JUL-84

WIND FREQUENCY DISTRIBUTION  
 (FREQUENCY IN NUMBER OF OCCURRENCES)

WIND DIRECTION	UPPER CLASS INTERVALS OF WIND SPEED (MPH)											TOTAL	MEAN SPEED	
	1	2	3	4	5	6	7	8	9	10	11			>11
NNE	0	1	4	15	14	46	71	90	80	111	72	79	583	8.63
NE	0	1	1	4	1	6	4	4	0	2	0	3	26	6.62
ENE	0	1	0	0	2	0	1	0	0	0	0	0	4	4.47
E	0	0	1	1	1	0	0	0	0	0	0	0	3	3.63
ESE	0	0	1	0	0	0	0	0	0	0	0	0	1	2.90
SE	0	0	0	0	0	0	0	0	0	0	0	0	0	0.00
SSE	0	0	0	0	0	0	0	0	0	0	0	0	0	0.00
S	0	0	0	0	0	1	0	0	0	0	0	0	1	5.00
SSW	0	0	0	0	0	0	0	0	0	0	0	0	0	0.00
SW	0	0	0	0	0	0	0	0	0	0	0	0	0	0.00
WSW	0	0	0	0	0	0	0	0	0	0	0	0	0	0.00
W	0	0	0	0	0	0	0	0	0	0	0	0	0	0.00
WNW	0	0	0	0	2	0	1	0	0	0	0	0	3	5.20
NW	0	0	0	0	0	0	2	0	0	0	0	0	2	6.50
NNW	0	1	0	0	0	0	1	0	0	0	0	0	2	4.50
N	0	0	0	2	1	3	6	4	10	6	3	4	39	8.30
VARIABLE													0	0.00
CALM													0	0.00
TOTAL	0	4	7	22	21	56	86	98	90	119	75	86	664	8.43

WIND FREQUENCY DISTRIBUTION  
 (FREQUENCY IN PERCENT OF TOTAL)

WIND DIRECTION	UPPER CLASS INTERVALS OF WIND SPEED (MPH)											TOTAL	MEAN SPEED	
	1	2	3	4	5	6	7	8	9	10	11			>11
NNE	0.00	0.05	0.19	0.70	0.65	2.14	3.30	4.18	3.72	5.16	3.35	3.67	27.07	8.63
NE	0.00	0.05	0.05	0.19	0.05	0.28	0.19	0.19	0.00	0.09	0.00	0.14	1.21	6.62
ENE	0.00	0.05	0.00	0.00	0.09	0.00	0.05	0.00	0.00	0.00	0.00	0.00	0.19	4.47
E	0.00	0.00	0.05	0.05	0.05	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.14	3.63
ESE	0.00	0.00	0.05	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.05	2.90
SE	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
SSE	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
S	0.00	0.00	0.00	0.00	0.00	0.05	0.00	0.00	0.00	0.00	0.00	0.00	0.05	5.00
SSW	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
SW	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
WSW	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
W	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
WNW	0.00	0.00	0.00	0.00	0.09	0.00	0.05	0.00	0.00	0.00	0.00	0.00	0.14	5.20
NW	0.00	0.00	0.00	0.00	0.00	0.00	0.09	0.00	0.00	0.00	0.00	0.00	0.07	6.50
NNW	0.00	0.05	0.00	0.00	0.00	0.00	0.05	0.00	0.00	0.00	0.00	0.00	0.07	4.50
N	0.00	0.00	0.00	0.09	0.05	0.14	0.28	0.19	0.46	0.28	0.14	0.19	1.81	8.30
VARIABLE													0.00	0.00
CALM													0.00	0.00
TOTAL	0.00	0.19	0.33	1.02	0.98	2.60	4.00	4.55	4.18	5.53	3.49	4.00	30.86	8.43

TOTAL NUMBER OF POSSIBLE OBSERVATIONS - 2184

TOTAL NUMBER OF OBSERVATIONS WITH VALID SPEED, DIRECTION AND STABILITY - 2152

TABLE 4A

SOUTHERN CALIFORNIA EDISON COMPANY  
 SAN ONOFRE NUCLEAR GENERATING STATION  
 1ST QUARTER, 1984  
 DAMES AND MOORE JOB NO - 00377-084-09  
 DATA PERIOD- 01/01/84 TO 03/31/84  
 STABILITY CLASS ALL (10-40 METERS )  
 WINDS AT 10 METER LEVEL

25-JUL-84

WIND FREQUENCY DISTRIBUTION  
 (FREQUENCY IN NUMBER OF OCCURRENCES)

WIND DIRECTION	UPPER CLASS INTERVALS OF WIND SPEED (MPH)												TOTAL	MEAN SPEED
	1	2	3	4	5	6	7	8	9	10	11	>11		
NNE	0	7	37	72	75	100	109	106	89	120	79	100	894	7.60
NE	0	3	15	15	7	14	7	6	3	3	1	18	92	6.61
ENE	0	6	3	6	6	3	6	1	1	1	0	0	33	4.54
E	1	0	4	2	8	6	4	2	0	1	0	2	30	5.39
ESE	1	1	6	4	1	4	8	5	1	0	0	0	31	5.06
SE	0	0	0	9	9	13	9	7	8	8	4	1	68	6.75
SSE	0	1	9	13	14	12	9	8	7	9	1	0	85	5.70
S	0	0	13	10	12	15	16	18	5	3	4	0	96	5.99
SSW	0	0	7	9	13	12	7	7	10	2	0	2	69	5.83
SW	0	2	13	17	25	16	8	8	0	0	0	0	89	4.55
WSW	0	2	7	22	30	19	17	4	2	3	1	6	113	5.51
W	0	0	5	19	41	53	30	20	7	5	4	5	189	6.02
WNW	0	1	3	10	21	27	26	12	10	11	4	14	139	7.16
NW	0	0	6	8	6	11	13	5	0	1	1	2	53	5.65
NNW	0	2	4	13	10	11	10	4	1	1	0	1	57	5.09
N	0	6	3	15	19	16	18	11	12	11	4	6	121	6.39
VARIABLE													0	0.00
CALM													0	0.00
TOTAL	2	31	135	246	297	332	297	224	156	179	103	157	2159	6.63

WIND FREQUENCY DISTRIBUTION  
 (FREQUENCY IN PERCENT OF TOTAL)

WIND DIRECTION	UPPER CLASS INTERVALS OF WIND SPEED (MPH)												TOTAL	MEAN SPEED
	1	2	3	4	5	6	7	8	9	10	11	>11		
NNE	0.00	0.32	1.71	3.33	3.47	4.63	5.05	4.91	4.12	5.56	3.66	4.63	41.41	7.60
NE	0.00	0.14	0.69	0.69	0.32	0.65	0.32	0.28	0.14	0.14	0.05	0.83	4.26	6.61
ENE	0.00	0.28	0.14	0.28	0.28	0.14	0.28	0.05	0.05	0.05	0.00	0.00	1.53	4.54
E	0.05	0.00	0.19	0.09	0.37	0.28	0.19	0.09	0.00	0.05	0.00	0.09	1.39	5.39
ESE	0.05	0.05	0.28	0.19	0.05	0.19	0.37	0.23	0.05	0.00	0.00	0.00	1.44	5.06
SE	0.00	0.00	0.00	0.42	0.42	0.60	0.42	0.32	0.37	0.37	0.19	0.05	3.15	6.75
SSE	0.00	0.05	0.42	0.69	0.65	0.56	0.42	0.37	0.32	0.42	0.05	0.00	3.94	5.70
S	0.00	0.00	0.60	0.46	0.56	0.69	0.74	0.83	0.23	0.14	0.19	0.00	4.45	5.89
SSW	0.00	0.00	0.32	0.42	0.60	0.56	0.32	0.32	0.46	0.09	0.00	0.09	3.20	5.83
SW	0.00	0.09	0.60	0.79	1.16	0.74	0.37	0.37	0.00	0.00	0.00	0.00	4.12	4.55
WSW	0.00	0.09	0.32	1.02	1.39	0.88	0.79	0.19	0.09	0.14	0.05	0.28	5.23	5.51
W	0.00	0.00	0.23	0.88	1.90	2.45	1.39	0.93	0.32	0.23	0.19	0.23	8.75	6.02
WNW	0.00	0.05	0.14	0.46	0.97	1.25	1.20	0.56	0.46	0.51	0.19	0.65	6.44	7.16
NW	0.00	0.00	0.28	0.37	0.28	0.51	0.60	0.23	0.00	0.05	0.05	0.09	2.45	5.65
NNW	0.00	0.09	0.19	0.60	0.46	0.51	0.46	0.19	0.05	0.05	0.00	0.05	2.64	5.09
N	0.00	0.28	0.14	0.69	0.88	0.74	0.83	0.51	0.56	0.51	0.19	0.28	5.60	6.39
VARIABLE													0.00	0.00
CALM													0.00	0.00
TOTAL	0.09	1.44	6.25	11.39	13.76	15.38	13.76	10.38	7.23	8.29	4.77	7.27	100.00	6.63

TOTAL NUMBER OF POSSIBLE OBSERVATIONS - 2184

TOTAL NUMBER OF OBSERVATIONS WITH VALID SPEED, DIRECTION AND STABILITY - 2152

TABLE 4A

SOUTHERN CALIFORNIA EDISON COMPANY  
 SAN ONOFRE NUCLEAR GENERATING STATION  
 2ND QUARTER, 1984  
 DAMES AND MOORE JOB NO. - 00377-084-09  
 DATA PERIOD- 04/01/84 TO 06/30/84  
 STABILITY CLASS #A# (10-40 METERS )  
 WINDS AT 10 METER LEVEL

25-JUL-84

WIND FREQUENCY DISTRIBUTION  
 (FREQUENCY IN NUMBER OF OCCURRENCES)

WIND DIRECTION	UPPER CLASS INTERVALS OF WIND SPEED (MPH)											TOTAL	MEAN SPEED			
	1	2	3	4	5	6	7	8	9	10	11			>11		
NNE	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.00
NE	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.00
ENE	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.00
E	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.00
ESE	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.00
SE	0	0	0	0	0	0	1	1	0	1	0	1	0	1	4	8.57
SSE	0	0	0	0	0	3	2	5	6	2	3	20	41	11	17	11.17
S	0	0	2	4	8	9	11	16	21	20	9	21	121	8	54	8.54
SSW	0	0	1	5	13	19	23	25	28	9	2	4	129	7	17	7.17
SW	0	0	2	11	22	32	42	32	13	5	2	1	162	6	41	6.41
WSW	0	0	1	6	17	39	45	25	12	7	3	1	156	6	53	6.53
W	0	0	0	1	20	27	27	19	26	15	8	12	155	7	64	7.64
WNW	0	0	0	0	0	3	2	2	4	2	2	21	36	11	25	11.25
NW	0	0	0	0	0	0	0	1	0	0	0	1	2	11	90	11.90
NNW	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.00
N	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.00
VARIABLE																0.00
CALM																0.00
TOTAL	0	0	6	27	80	132	153	125	111	61	29	82	806	7	59	7.59

WIND FREQUENCY DISTRIBUTION  
 (FREQUENCY IN PERCENT OF TOTAL)

WIND DIRECTION	UPPER CLASS INTERVALS OF WIND SPEED (MPH)											TOTAL	MEAN SPEED			
	1	2	3	4	5	6	7	8	9	10	11			>11		
NNE	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
NE	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
ENE	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
E	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
ESE	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
SE	0.00	0.00	0.00	0.00	0.00	0.00	0.05	0.05	0.00	0.05	0.00	0.05	0.19	8	57	8.57
SSE	0.00	0.00	0.00	0.00	0.00	0.14	0.09	0.24	0.28	0.09	0.14	0.94	1.93	11	17	11.17
S	0.00	0.00	0.09	0.19	0.38	0.42	0.52	0.75	0.99	0.94	0.42	0.99	5.71	8	54	8.54
SSW	0.00	0.00	0.05	0.24	0.61	0.90	1.08	1.18	1.32	0.42	0.09	0.19	6.08	7	17	7.17
SW	0.00	0.00	0.09	0.52	1.04	1.51	1.98	1.51	0.61	0.24	0.09	0.05	7.64	6	41	6.41
WSW	0.00	0.00	0.05	0.28	0.80	1.84	2.12	1.18	0.57	0.33	0.14	0.05	7.36	6	53	6.53
W	0.00	0.00	0.00	0.05	0.94	1.27	1.27	0.90	1.23	0.71	0.38	0.57	7.31	7	64	7.64
WNW	0.00	0.00	0.00	0.00	0.00	0.14	0.09	0.09	0.19	0.09	0.09	0.99	1.70	11	25	11.25
NW	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.05	0.00	0.00	0.05	0.07	11	90	11.90
NNW	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
N	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
VARIABLE																0.00
CALM																0.00
TOTAL	0.00	0.00	0.28	1.27	3.77	6.23	7.22	5.90	5.24	2.88	1.37	3.87	39.02	7	59	7.59

TOTAL NUMBER OF POSSIBLE OBSERVATIONS - 2184  
 TOTAL NUMBER OF OBSERVATIONS WITH VALID SPEED, DIRECTION AND STABILITY - 2120

TABLE 4A

SOUTHERN CALIFORNIA EDISON COMPANY  
 SAN ONOFRE NUCLEAR GENERATING STATION  
 2ND QUARTER, 1984  
 DAMES AND MOORE JOB NO - 00377-084-09  
 DATA PERIOD- 04/01/84 TO 06/30/84  
 STABILITY CLASS #88 (10-40 METERS )  
 WINDS AT 10 METER LEVEL

25-JUL-84

WIND FREQUENCY DISTRIBUTION  
 (FREQUENCY IN NUMBER OF OCCURRENCES)

WIND DIRECTION	UPPER CLASS INTERVALS OF WIND SPEED (MPH)												TOTAL	MEAN SPEED		
	1	2	3	4	5	6	7	8	9	10	11	>11				
NNE	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.00
NE	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.00
ENE	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.00
E	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.00
ESE	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.00
SE	0	0	0	0	0	0	0	0	0	2	0	0	1	3	9.63	
SSE	0	0	0	0	0	1	1	2	0	1	0	3	8	9.61		
S	0	0	0	0	1	1	1	1	0	0	0	1	5	7.16		
SSW	0	0	0	0	0	0	2	1	0	0	0	0	3	7.13		
SW	0	0	1	0	1	0	2	0	0	1	0	0	5	6.00		
WSW	0	0	0	1	0	0	0	0	0	0	0	0	1	3.70		
W	0	0	0	0	0	0	0	1	0	0	0	0	1	7.60		
WNNW	0	0	0	0	0	0	0	1	0	0	0	0	1	7.70		
NW	0	0	0	0	0	0	0	0	0	0	0	1	1	12.40		
NNW	0	0	0	0	0	0	0	0	0	0	0	0	0	0.00		
N	0	0	0	0	0	0	0	0	0	0	0	0	0	0.00		
VARIABLE													0	0.00		
CALM													0	0.00		
TOTAL	0	0	1	1	2	2	6	6	2	2	0	6	28	8.02		

WIND FREQUENCY DISTRIBUTION  
 (FREQUENCY IN PERCENT OF TOTAL)

WIND DIRECTION	UPPER CLASS INTERVALS OF WIND SPEED (MPH)												TOTAL	MEAN SPEED		
	1	2	3	4	5	6	7	8	9	10	11	>11				
NNE	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
NE	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
ENE	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
E	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
ESE	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
SE	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.07	0.00	0.00	0.05	0.14	9.63	
SSE	0.00	0.00	0.00	0.00	0.00	0.05	0.05	0.09	0.00	0.05	0.00	0.14	0.38	9.61		
S	0.00	0.00	0.00	0.00	0.05	0.05	0.05	0.05	0.00	0.00	0.00	0.05	0.24	7.16		
SSW	0.00	0.00	0.00	0.00	0.00	0.00	0.09	0.05	0.00	0.00	0.00	0.00	0.14	7.13		
SW	0.00	0.00	0.05	0.00	0.05	0.00	0.09	0.00	0.00	0.05	0.00	0.00	0.24	6.00		
WSW	0.00	0.00	0.00	0.05	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.05	3.70		
W	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.05	0.00	0.00	0.00	0.00	0.05	7.60		
WNNW	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.05	0.00	0.00	0.00	0.00	0.05	7.70		
NW	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.05	0.05	12.40		
NNW	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
N	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
VARIABLE													0.00	0.00		
CALM													0.00	0.00		
TOTAL	0.00	0.00	0.05	0.05	0.09	0.09	0.28	0.28	0.09	0.09	0.00	0.28	1.32	8.02		

TOTAL NUMBER OF POSSIBLE OBSERVATIONS - 2184  
 TOTAL NUMBER OF OBSERVATIONS WITH VALID SPEED, DIRECTION AND STABILITY - 2120



TABLE 4A

SOUTHERN CALIFORNIA EDISON COMPANY  
 SAN DIEGO NUCLEAR GENERATING STATION  
 2ND QUARTER, 1984  
 DAMES AND MOORE JOB NO - 00377-084-09  
 DATA PERIOD- 04/01/84 TO 06/30/84  
 STABILITY CLASS #C# (10-40 METERS )  
 WINDS AT 10 METER LEVEL

25-JUL-84

WIND FREQUENCY DISTRIBUTION  
 (FREQUENCY IN NUMBER OF OCCURRENCES)

WIND DIRECTION	UPPER CLASS INTERVALS OF WIND SPEED (MPH)											TOTAL	MEAN SPEED		
	1	2	3	4	5	6	7	8	9	10	11			>11	
NNE	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.00
NE	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.00
ENE	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.00
E	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.00
ESE	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.00
SE	0	0	0	0	0	1	0	2	1	0	0	2	6	9.78	
SSE	0	0	0	2	1	3	1	4	0	2	1	5	19	9.03	
S	0	0	1	1	3	1	0	2	2	1	2	1	14	7.20	
SSW	0	0	1	1	1	3	2	2	0	0	0	0	10	5.70	
SW	0	0	1	1	0	1	0	0	0	0	1	0	4	5.65	
WSW	0	0	1	4	5	1	1	0	0	0	0	0	12	4.28	
W	0	0	3	3	3	0	2	0	0	0	0	0	11	4.08	
WNW	0	0	0	3	3	0	3	2	1	1	0	0	13	6.06	
NW	0	0	0	0	0	0	0	0	0	0	0	0	0	0.00	
NNW	0	0	0	0	0	0	0	0	0	0	1	0	1	10.60	
N	0	0	0	0	0	0	0	0	0	0	0	0	0	0.00	
VARIABLE CALM													0	0.00	
TOTAL	0	0	7	15	16	10	9	12	4	4	5	8	90	6.63	

WIND FREQUENCY DISTRIBUTION  
 (FREQUENCY IN PERCENT OF TOTAL)

WIND DIRECTION	UPPER CLASS INTERVALS OF WIND SPEED (MPH)											TOTAL	MEAN SPEED		
	1	2	3	4	5	6	7	8	9	10	11			>11	
NNE	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
NE	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
ENE	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
E	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
ESE	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
SE	0.00	0.00	0.00	0.00	0.00	0.05	0.00	0.09	0.05	0.00	0.00	0.09	0.29	9.78	
SSE	0.00	0.00	0.00	0.09	0.05	0.14	0.05	0.19	0.00	0.09	0.05	0.24	0.90	9.03	
S	0.00	0.00	0.05	0.05	0.14	0.05	0.00	0.09	0.09	0.05	0.09	0.05	0.66	7.20	
SSW	0.00	0.00	0.05	0.05	0.05	0.14	0.09	0.09	0.00	0.00	0.00	0.00	0.47	5.70	
SW	0.00	0.00	0.05	0.05	0.00	0.05	0.00	0.00	0.00	0.00	0.05	0.00	0.19	5.65	
WSW	0.00	0.00	0.05	0.19	0.24	0.05	0.05	0.00	0.00	0.00	0.00	0.00	0.57	4.28	
W	0.00	0.00	0.14	0.14	0.14	0.00	0.09	0.00	0.00	0.00	0.00	0.00	0.52	4.08	
WNW	0.00	0.00	0.00	0.14	0.14	0.00	0.14	0.09	0.05	0.05	0.00	0.00	0.61	6.06	
NW	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
NNW	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.05	0.00	0.05	10.60	
N	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
VARIABLE CALM													0.00	0.00	
TOTAL	0.00	0.00	0.33	0.71	0.75	0.47	0.42	0.57	0.19	0.19	0.24	0.38	4.25	6.63	

TOTAL NUMBER OF POSSIBLE OBSERVATIONS - 2184  
 TOTAL NUMBER OF OBSERVATIONS WITH VALID SPEED, DIRECTION AND STABILITY - 2120



TABLE 4A

SOUTHERN CALIFORNIA EDISON COMPANY  
 SAN ONOFRE NUCLEAR GENERATING STATION  
 2ND QUARTER, 1984  
 DAMES AND MOORE JOB NO. - 00377-084-09  
 DATA PERIOD- 04/01/84 TO 06/30/84  
 STABILITY CLASS #D# (10-40 METERS )  
 WINDS AT 10 METER LEVEL

25-JUL-84

WIND FREQUENCY DISTRIBUTION  
 (FREQUENCY IN NUMBER OF OCCURRENCES)

WIND DIRECTION	UPPER CLASS INTERVALS OF WIND SPEED (MPH)											TOTAL	MEAN SPEED	
	1	2	3	4	5	6	7	8	9	10	11			>11
NNE	0	0	2	6	6	4	2	2	0	0	0	0	22	4.72
NE	0	0	1	5	2	1	0	0	0	0	0	0	9	3.90
ENE	0	0	1	2	2	6	1	0	0	0	0	0	12	4.98
E	0	0	1	2	10	1	2	1	0	0	0	0	17	4.79
ESE	0	0	1	7	4	13	12	6	9	4	0	0	56	6.34
SE	0	0	4	13	16	20	23	32	25	18	13	19	183	7.67
SSE	0	0	1	10	8	10	4	10	9	6	3	7	68	7.27
S	0	0	8	7	10	7	6	4	6	3	3	1	55	5.94
SSW	0	1	2	6	8	7	1	3	2	1	2	2	35	5.82
SW	0	0	2	4	5	5	3	5	2	1	1	0	28	5.04
WSW	0	1	5	4	2	2	2	0	0	1	0	1	18	4.90
W	0	1	6	3	5	2	1	0	1	1	0	2	22	5.32
WNW	0	0	1	2	4	2	1	4	2	0	1	4	21	7.64
NW	0	0	2	3	2	3	2	2	2	2	0	6	24	8.02
NNW	0	0	1	5	0	1	0	0	0	0	0	0	7	3.66
N	0	3	5	9	5	3	2	1	0	0	0	0	28	3.94
VARIABLE													0	0.00
CALM													0	0.00
TOTAL	0	6	43	88	89	87	62	70	98	37	23	42	605	6.48

WIND FREQUENCY DISTRIBUTION  
 (FREQUENCY IN PERCENT OF TOTAL)

WIND DIRECTION	UPPER CLASS INTERVALS OF WIND SPEED (MPH)											TOTAL	MEAN SPEED	
	1	2	3	4	5	6	7	8	9	10	11			>11
NNE	0.00	0.00	0.09	0.28	0.28	0.19	0.09	0.09	0.00	0.00	0.00	0.00	1.04	4.72
NE	0.00	0.00	0.05	0.24	0.09	0.05	0.00	0.00	0.00	0.00	0.00	0.00	0.42	3.90
ENE	0.00	0.00	0.05	0.09	0.09	0.28	0.05	0.00	0.00	0.00	0.00	0.00	0.57	4.98
E	0.00	0.00	0.05	0.09	0.47	0.05	0.09	0.05	0.00	0.00	0.00	0.00	0.80	4.79
ESE	0.00	0.00	0.05	0.33	0.19	0.61	0.57	0.28	0.42	0.19	0.00	0.00	2.64	6.34
SE	0.00	0.00	0.19	0.61	0.75	0.94	1.08	1.51	1.18	0.85	0.61	0.90	8.63	7.67
SSE	0.00	0.00	0.05	0.47	0.38	0.47	0.19	0.47	0.42	0.28	0.14	0.33	3.21	7.27
S	0.00	0.00	0.38	0.33	0.47	0.33	0.28	0.19	0.28	0.14	0.14	0.05	2.57	5.94
SSW	0.00	0.05	0.09	0.28	0.38	0.33	0.05	0.14	0.09	0.05	0.09	0.09	1.65	5.82
SW	0.00	0.00	0.09	0.19	0.24	0.24	0.14	0.24	0.09	0.05	0.05	0.00	1.32	5.04
WSW	0.00	0.05	0.24	0.19	0.09	0.09	0.09	0.00	0.00	0.05	0.00	0.05	0.85	4.90
W	0.00	0.05	0.28	0.14	0.24	0.09	0.05	0.00	0.05	0.05	0.00	0.09	1.04	5.32
WNW	0.00	0.00	0.05	0.09	0.19	0.09	0.05	0.19	0.09	0.00	0.05	0.19	0.99	7.64
NW	0.00	0.00	0.09	0.14	0.09	0.14	0.09	0.09	0.09	0.09	0.00	0.28	1.13	8.02
NNW	0.00	0.00	0.05	0.24	0.00	0.05	0.00	0.00	0.00	0.00	0.00	0.00	0.33	3.66
N	0.00	0.14	0.24	0.42	0.24	0.14	0.09	0.05	0.00	0.00	0.00	0.00	1.32	3.94
VARIABLE													0.00	0.00
CALM													0.00	0.00
TOTAL	0.00	0.28	2.03	4.15	4.20	4.10	2.92	3.30	2.74	1.75	1.08	1.98	28.54	6.48

TOTAL NUMBER OF POSSIBLE OBSERVATIONS - 2184  
 TOTAL NUMBER OF OBSERVATIONS WITH VALID SPEED, DIRECTION AND STABILITY - 2120

TABLE 4A

SOUTHERN CALIFORNIA EDISON COMPANY  
 SAN ONOFRE NUCLEAR GENERATING STATION  
 2ND QUARTER, 1984  
 DAMES AND MOORE JOB NO - 00377-084-09  
 DATA PERIOD- 04/01/84 TO 06/30/84  
 STABILITY CLASS #E# (10-40 METERS )  
 WINDS AT 10 MEIER LEVEL

25-JUL-84

WIND FREQUENCY DISTRIBUTION  
 (FREQUENCY IN NUMBER OF OCCURRENCES)

WIND DIRECTION	UPPER CLASS INTERVALS OF WIND SPEED (MPH)											TOTAL	MEAN SPEED	
	1	2	3	4	5	6	7	8	9	10	11			>11
NNE	0.	2	6	18.	8	4.	5.	5	0.	2.	0.	0.	50.	4.65
NE	0.	1.	2	1.	3	0.	0.	0	0.	0.	0.	0.	7.	3.49
ENE	0.	0.	1	3.	2	1.	0.	0.	0.	0.	0.	0.	7.	3.99
E	0.	0.	2	2.	3	4.	1.	1.	1.	1.	0.	0.	15.	5.33
ESE	0.	0.	3	3.	4	6	1.	0.	1.	0	0.	0.	18.	4.64
SE	0.	0.	3	10.	6	6	7.	2.	2.	0.	0.	0.	36.	5.13
SSE	0.	1.	6	9.	2	5	2.	2.	0.	0.	0.	0.	27.	4.20
S	0.	0.	3	2.	2	1.	3.	0.	0.	0.	0.	0.	11.	4.55
SSW	0.	0.	0	0.	0	2.	1.	1.	0	0.	0.	0.	4.	6.30
SW	0.	0.	1	2	1.	1.	1.	0.	0.	0.	0.	0.	6.	4.52
WSW	0.	0.	0	2.	0	0.	0.	1.	0	1.	0.	0.	4.	5.78
W	0.	0.	1	3.	2	0.	0.	0.	0.	0.	0.	0.	6.	3.68
WNW	0.	1.	1	1.	2	1	2.	1.	0.	0.	0.	1.	10.	5.96
NW	0.	1.	3	1.	2	2	1.	0.	1.	0.	1.	5	17.	7.07
NNW	0.	1.	2.	3.	0	0.	1.	1.	1.	0.	0.	0.	9.	4.63
N	0.	2	12.	5	3	2	2.	2.	0.	1.	0.	0.	29.	3.99
VARIABLE													0.	0.00
CALM													0.	0.00
TOTAL	0.	9	46.	55.	40	35	27.	16.	6.	5.	1.	6.	256.	4.91

WIND FREQUENCY DISTRIBUTION  
 (FREQUENCY IN PERCENT OF TOTAL)

WIND DIRECTION	UPPER CLASS INTERVALS OF WIND SPEED (MPH)											TOTAL	MEAN SPEED	
	1	2	3	4	5	6	7	8	9	10	11			>11
NNE	0.00	0.09	0.28	0.85	0.38	0.19	0.24	0.24	0.00	0.09	0.00	0.00	2.36	4.65
NE	0.00	0.05	0.09	0.05	0.14	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.33	3.49
ENE	0.00	0.00	0.05	0.14	0.09	0.05	0.00	0.00	0.00	0.00	0.00	0.00	0.33	3.99
E	0.00	0.00	0.09	0.09	0.14	0.19	0.05	0.05	0.05	0.05	0.00	0.00	0.71	5.33
ESE	0.00	0.00	0.14	0.14	0.19	0.28	0.05	0.00	0.05	0.00	0.00	0.00	0.85	4.64
SE	0.00	0.00	0.14	0.47	0.28	0.28	0.33	0.09	0.09	0.00	0.00	0.00	1.70	5.13
SSE	0.00	0.05	0.28	0.42	0.09	0.24	0.09	0.09	0.00	0.00	0.00	0.00	1.27	4.20
S	0.00	0.00	0.14	0.09	0.09	0.05	0.14	0.00	0.00	0.00	0.00	0.00	0.52	4.55
SSW	0.00	0.00	0.00	0.00	0.00	0.09	0.05	0.05	0.00	0.00	0.00	0.00	0.19	6.30
SW	0.00	0.00	0.05	0.09	0.05	0.05	0.05	0.00	0.00	0.00	0.00	0.00	0.28	4.52
WSW	0.00	0.00	0.00	0.09	0.00	0.00	0.00	0.05	0.00	0.05	0.00	0.00	0.19	5.78
W	0.00	0.00	0.05	0.14	0.09	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.28	3.68
WNW	0.00	0.05	0.05	0.05	0.09	0.05	0.09	0.05	0.00	0.00	0.00	0.05	0.47	5.96
NW	0.00	0.05	0.14	0.05	0.09	0.09	0.05	0.00	0.05	0.00	0.05	0.24	0.80	7.07
NNW	0.00	0.05	0.09	0.14	0.00	0.00	0.05	0.05	0.05	0.00	0.00	0.00	0.42	4.63
N	0.00	0.09	0.37	0.24	0.14	0.09	0.09	0.09	0.00	0.05	0.00	0.00	1.37	3.99
VARIABLE													0.00	0.00
CALM													0.00	0.00
TOTAL	0.00	0.42	2.17	3.07	1.89	1.65	1.27	0.75	0.28	0.24	0.05	0.28	12.08	4.91

TOTAL NUMBER OF POSSIBLE OBSERVATIONS - 2184  
 TOTAL NUMBER OF OBSERVATIONS WITH VALID SPEED, DIRECTION AND STABILITY - 2120

TABLE 4A

SOUTHERN CALIFORNIA EDISON COMPANY  
 SAN ONOFRE NUCLEAR GENERATING STATION  
 2ND QUARTER, 1984  
 DAMES AND MOORE JOB NO - 00377-084-09  
 DATA PERIOD- 04/01/84 TO 06/30/84  
 STABILITY CLASS #F# (10-40 METERS )  
 WINDS AT 10 METER LEVEL

25-JUL-84

WIND FREQUENCY DISTRIBUTION  
 (FREQUENCY IN NUMBER OF OCCURRENCES)

WIND DIRECTION	UPPER CLASS INTERVALS OF WIND SPEED (MPH)											TOTAL	MEAN SPEED	
	1	2	3	4	5	6	7	8	9	10	11			>11
NNE	0	1	7	25	42	28	22	5	5	1	0	0	136	5.12
NE	0	1	3	6	3	2	0	0	0	0	0	0	15	3.75
ENE	0	0	2	1	0	0	1	0	0	0	0	0	4	3.93
E	0	1	3	0	1	1	0	1	0	0	0	0	6	3.10
ESE	0	0	2	1	0	0	0	0	0	0	0	0	3	2.73
SE	0	0	1	0	0	0	0	0	0	0	0	0	1	2.80
SSE	0	0	1	1	0	0	0	0	0	0	0	0	2	2.75
S	0	0	1	0	0	0	0	0	0	0	0	0	1	2.10
SSW	0	0	0	0	0	0	0	0	0	0	0	0	0	0.00
SW	0	0	0	0	0	0	0	0	0	0	0	0	0	0.00
WSW	0	0	3	1	0	0	0	0	0	0	0	0	4	2.85
W	0	0	0	0	0	0	0	0	0	0	0	0	0	0.00
WNW	0	0	0	0	0	0	1	0	0	0	0	0	1	7.00
NW	0	0	0	1	0	0	0	0	1	1	1	0	4	8.15
NNW	0	0	1	1	1	1	0	1	0	0	0	0	5	4.58
N	0	0	4	8	4	3	2	2	2	0	1	0	26	4.90
VARIABLE CALM													0	0.00
TOTAL	0	3	28	45	51	35	26	8	8	2	2	0	208	4.95

WIND FREQUENCY DISTRIBUTION  
 (FREQUENCY IN PERCENT OF TOTAL)

WIND DIRECTION	UPPER CLASS INTERVALS OF WIND SPEED (MPH)											TOTAL	MEAN SPEED	
	1	2	3	4	5	6	7	8	9	10	11			>11
NNE	0.00	0.05	0.33	1.18	1.98	1.32	1.04	0.24	0.24	0.05	0.00	0.00	6.42	5.12
NE	0.00	0.05	0.14	0.28	0.14	0.09	0.00	0.00	0.00	0.00	0.00	0.00	0.71	3.75
ENE	0.00	0.00	0.09	0.05	0.00	0.00	0.05	0.00	0.00	0.00	0.00	0.00	0.17	3.73
E	0.00	0.05	0.14	0.00	0.05	0.05	0.00	0.00	0.00	0.00	0.00	0.00	0.28	3.10
ESE	0.00	0.00	0.09	0.05	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.14	2.73
SE	0.00	0.00	0.05	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.05	2.80
SSE	0.00	0.00	0.05	0.05	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.09	2.75
S	0.00	0.00	0.05	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.05	2.10
SSW	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
SW	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
WSW	0.00	0.00	0.14	0.05	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.19	2.85
W	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
WNW	0.00	0.00	0.00	0.00	0.00	0.00	0.05	0.00	0.00	0.00	0.00	0.00	0.05	7.00
NW	0.00	0.00	0.00	0.05	0.00	0.00	0.00	0.00	0.05	0.05	0.05	0.00	0.19	8.15
NNW	0.00	0.00	0.05	0.05	0.05	0.05	0.00	0.05	0.00	0.00	0.00	0.00	0.24	4.58
N	0.00	0.00	0.19	0.38	0.19	0.14	0.09	0.09	0.09	0.00	0.05	0.00	1.23	4.90
VARIABLE CALM													0.00	0.00
TOTAL	0.00	0.14	1.32	2.12	2.41	1.65	1.23	0.38	0.38	0.09	0.09	0.00	7.81	4.85

TOTAL NUMBER OF POSSIBLE OBSERVATIONS - 2184

TOTAL NUMBER OF OBSERVATIONS WITH VALID SPEED, DIRECTION AND STABILITY - 2120

TABLE 4A

SOUTHERN CALIFORNIA EDISON COMPANY  
 SAN ONOFRE NUCLEAR GENERATING STATION  
 2ND QUARTER, 1984  
 DAMES AND MOORE JOB NO - 00377-084-09  
 DATA PERIOD- 04/01/84 TO 06/30/84  
 STABILITY CLASS #G\* (10-40 METERS )  
 WINDS AT 10 MEIER LEVEL

25-JUL-84

WIND FREQUENCY DISTRIBUTION  
 (FREQUENCY IN NUMBER OF OCCURRENCES)

WIND DIRECTION	UPPER CLASS INTERVALS OF WIND SPEED (MPH)											TOTAL	MEAN SPEED	
	1	2	3	4	5	6	7	8	9	10	11			>11
NNE	0	0	0	1	9	19	19	27	21	8	4	0	108	7.19
NE	0	0	0	0	0	0	0	0	0	0	0	0	0	0.00
ENE	0	0	0	0	0	1	0	0	0	0	0	0	1	5.40
E	0	0	0	0	0	0	0	0	0	0	0	0	0	0.00
ESE	0	0	0	0	0	0	0	0	0	0	0	0	0	0.00
SE	0	0	0	0	0	0	0	0	0	0	0	0	0	0.00
SSE	0	0	0	0	0	0	0	0	0	0	0	0	0	0.00
S	0	0	0	0	0	0	0	0	0	0	0	0	0	0.00
SSW	0	0	0	0	0	0	0	0	0	0	0	0	0	0.00
SW	0	0	0	0	0	0	0	0	0	0	0	0	0	0.00
WSW	0	0	0	0	0	0	0	0	0	0	0	0	0	0.00
W	0	0	0	0	0	0	0	0	0	0	0	0	0	0.00
WNW	0	0	0	0	1	0	0	1	0	0	1	1	4	8.85
NW	0	0	0	0	0	1	0	0	0	0	3	0	4	9.33
NNW	0	0	0	0	0	0	0	0	0	0	0	0	0	0.00
N	0	0	0	1	0	1	3	3	0	0	0	0	10	6.50
VARIABLE													0	0.00
CALM													0	0.00
TOTAL	0	0	0	2	10	22	24	31	21	8	8	1	127	7.24

WIND FREQUENCY DISTRIBUTION  
 (FREQUENCY IN PERCENT OF TOTAL)

WIND DIRECTION	UPPER CLASS INTERVALS OF WIND SPEED (MPH)											TOTAL	MEAN SPEED	
	1	2	3	4	5	6	7	8	9	10	11			>11
NNE	0.00	0.00	0.00	0.05	0.42	0.90	0.90	1.27	0.99	0.38	0.19	0.00	5.09	7.19
NE	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
ENE	0.00	0.00	0.00	0.00	0.00	0.05	0.00	0.00	0.00	0.00	0.00	0.00	0.05	5.40
E	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
ESE	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
SE	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
SSE	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
S	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
SSW	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
SW	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
WSW	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
W	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
WNW	0.00	0.00	0.00	0.00	0.05	0.00	0.00	0.05	0.00	0.00	0.05	0.05	0.19	8.85
NW	0.00	0.00	0.00	0.00	0.00	0.05	0.00	0.00	0.00	0.00	0.14	0.00	0.19	9.33
NNW	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
N	0.00	0.00	0.00	0.05	0.00	0.05	0.24	0.14	0.00	0.00	0.00	0.00	0.47	6.50
VARIABLE													0.00	0.00
CALM													0.00	0.00
TOTAL	0.00	0.00	0.00	0.09	0.47	1.04	1.13	1.46	0.99	0.38	0.38	0.05	5.99	7.24

TOTAL NUMBER OF POSSIBLE OBSERVATIONS - 2184  
 TOTAL NUMBER OF OBSERVATIONS WITH VALID SPEED, DIRECTION AND STABILITY - 2120

TABLE 4A

SOUTHERN CALIFORNIA Edison COMPANY  
 SAN ONOFRE NUCLEAR GENERATING STATION  
 2ND QUARTER, 1984  
 DAMES AND MOORE JOB NO - 00377-084-09  
 DATA PERIOD- 04/01/84 TO 06/30/84  
 STABILITY CLASS #0\* (10-40 METERS )  
 WINDS AT 10 MEIER LEVEL

25-JUL-84

WIND FREQUENCY DISTRIBUTION  
 (FREQUENCY IN NUMBER OF OCCURRENCES)

WIND DIRECTION	UPPER CLASS INTERVALS OF WIND SPEED (MPH)											TOTAL	MEAN SPEED	
	1	2	3	4	5	6	7	8	9	10	11			>11
NNE	0	0	0	1	9	19	19	27	21	8	4	0	108	7.19
NE	0	0	0	0	0	0	0	0	0	0	0	0	0	0.00
ENE	0	0	0	0	0	1	0	0	0	0	0	0	1	3.40
E	0	0	0	0	0	0	0	0	0	0	0	0	0	0.00
ESE	0	0	0	0	0	0	0	0	0	0	0	0	0	0.00
SE	0	0	0	0	0	0	0	0	0	0	0	0	0	0.00
SSE	0	0	0	0	0	0	0	0	0	0	0	0	0	0.00
S	0	0	0	0	0	0	0	0	0	0	0	0	0	0.00
SSW	0	0	0	0	0	0	0	0	0	0	0	0	0	0.00
SW	0	0	0	0	0	0	0	0	0	0	0	0	0	0.00
WSW	0	0	0	0	0	0	0	0	0	0	0	0	0	0.00
W	0	0	0	0	0	0	0	0	0	0	0	0	0	0.00
WNW	0	0	0	0	1	0	0	1	0	0	1	1	4	8.85
NW	0	0	0	0	0	1	0	0	0	0	3	0	4	9.33
NNW	0	0	0	0	0	0	0	0	0	0	0	0	0	0.00
N	0	0	0	1	0	1	5	3	0	0	0	0	10	6.50
VARIABLE													0	0.00
CALM													0	0.00
TOTAL	0	0	0	2	10	22	24	31	21	8	8	1	127	7.24

WIND FREQUENCY DISTRIBUTION  
 (FREQUENCY IN PERCENT OF TOTAL)

WIND DIRECTION	UPPER CLASS INTERVALS OF WIND SPEED (MPH)											TOTAL	MEAN SPEED	
	1	2	3	4	5	6	7	8	9	10	11			>11
NNE	0.00	0.00	0.00	0.05	0.42	0.90	0.90	1.27	0.79	0.38	0.19	0.00	5.09	7.19
NE	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
ENE	0.00	0.00	0.00	0.00	0.00	0.05	0.00	0.00	0.00	0.00	0.00	0.00	0.05	3.40
E	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
ESE	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
SE	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
SSE	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
S	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
SSW	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
SW	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
WSW	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
W	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
WNW	0.00	0.00	0.00	0.00	0.05	0.00	0.00	0.05	0.00	0.00	0.05	0.05	0.19	8.85
NW	0.00	0.00	0.00	0.00	0.00	0.05	0.00	0.00	0.00	0.00	0.14	0.00	0.19	9.33
NNW	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
N	0.00	0.00	0.00	0.05	0.00	0.05	0.24	0.14	0.00	0.00	0.00	0.00	0.47	6.50
VARIABLE													0.00	0.00
CALM													0.00	0.00
TOTAL	0.00	0.00	0.00	0.09	0.47	1.04	1.13	1.46	0.99	0.38	0.38	0.05	5.99	7.24

TOTAL NUMBER OF POSSIBLE OBSERVATIONS - 2184

TOTAL NUMBER OF OBSERVATIONS WITH VALID SPEED, DIRECTION AND STABILITY - 2120



TABLE 4A

SOUTHERN CALIFORNIA EDISON COMPANY  
 SAN ONOFRE NUCLFAR GENERATING STATION  
 2ND QUARTER, 1984  
 DAMES AND MOORE JOB NO - 00377-084-09  
 DATA PERIOD- 04/01/84 TO 06/30/84  
 STABILITY CLASS ALL (10-40 METERS )  
 WINDS AT 10 MEIER LEVEL

25-JUL-84

WIND FREQUENCY DISTRIBUTION  
 (FREQUENCY IN NUMBER OF OCCURRENCES)

WIND DIRECTION	UPPER CLASS INTERVALS OF WIND SPEED (MPH)											TOTAL	MEAN SPEED	
	1	2	3	4	5	6	7	8	9	10	11			>11
NNE	0.	3	16.	52	65	57	48	39	26	11.	4	0.	321.	5.70
NE	0.	2	6.	12.	8	3	0.	0.	0.	0.	0.	0.	31.	3.74
ENE	0.	0.	4.	6.	4.	8.	2.	0.	0.	0.	0.	0.	24.	4.48
E	0.	1.	6.	4.	14.	6.	3.	2.	1.	1.	0.	0.	38.	4.74
ESE	0.	0.	6.	11.	8	19.	13.	6	10	4	0.	0.	77.	5.81
SE	0.	0.	8	23.	22	27	31.	37.	30.	19.	13	23	233.	7.35
SSE	0.	1.	8.	22.	11.	22.	10.	23.	16.	11.	7.	35	166.	8.00
S	0.	0.	15	14.	24	19.	21.	23	29	25.	14.	24.	208.	7.49
SSW	0.	1	4.	12.	22	31.	30.	32	30.	10.	4	6.	182.	6.91
SW	0.	0.	7.	19.	29	44	50	38.	15.	7.	4	1.	214.	6.23
WSW	0.	1.	11.	18.	28	42.	50.	26	13	9.	3.	2.	203.	6.10
W	0.	1.	11.	10.	30.	32.	32.	22	28.	18.	8	15	207.	7.05
WNW	0.	1.	2.	6	10	6	9.	11.	7.	3.	4	27.	86.	8.75
NW	0.	1	5.	6.	4	6.	3.	2	5	3.	5	13.	53.	7.76
NNW	0.	1.	4	11.	1	2	1.	2	1	0.	1.	0.	24.	4.49
N	0.	5.	21.	24.	12	9.	11.	8	2.	1.	1.	0.	94.	4.49
VARIABLE													0.	0.00
CALM													0.	0.00
TOTAL	0.	18.	134.	250.	292.	333.	314.	271.	213.	122.	58.	146.	2161.	6.50

WIND FREQUENCY DISTRIBUTION  
 (FREQUENCY IN PERCENT OF TOTAL)

WIND DIRECTION	UPPER CLASS INTERVALS OF WIND SPEED (MPH)											TOTAL	MEAN SPEED	
	1	2	3	4	5	6	7	8	9	10	11			>11
NNE	0.00	0.14	0.74	2.41	3.01	2.64	2.22	1.80	1.20	0.51	0.19	0.00	14.85	5.70
NE	0.00	0.09	0.28	0.56	0.37	0.14	0.00	0.00	0.00	0.00	0.00	0.00	1.43	3.74
ENE	0.00	0.00	0.19	0.28	0.19	0.37	0.09	0.00	0.00	0.00	0.00	0.00	1.11	4.48
E	0.00	0.05	0.28	0.19	0.65	0.28	0.14	0.09	0.05	0.05	0.00	0.00	1.76	4.74
ESE	0.00	0.00	0.28	0.51	0.37	0.88	0.60	0.28	0.46	0.19	0.00	0.00	3.56	5.81
SE	0.00	0.00	0.37	1.06	1.02	1.25	1.43	1.71	1.39	0.88	0.60	1.06	10.78	7.35
SSE	0.00	0.05	0.37	1.02	0.51	1.02	0.46	1.06	0.74	0.51	0.32	1.62	7.68	8.00
S	0.00	0.00	0.69	0.65	1.11	0.88	0.97	1.06	1.34	1.16	0.65	1.11	7.63	7.49
SSW	0.00	0.05	0.19	0.56	1.02	1.43	1.39	1.48	1.39	0.46	0.19	0.28	8.42	6.91
SW	0.00	0.00	0.32	0.88	1.34	2.04	2.31	1.76	0.69	0.32	0.19	0.05	9.90	6.23
WSW	0.00	0.05	0.51	0.83	1.30	1.94	2.31	1.20	0.60	0.42	0.14	0.09	9.39	6.10
W	0.00	0.05	0.51	0.46	1.39	1.48	1.48	1.02	1.30	0.83	0.37	0.69	9.58	7.05
WNW	0.00	0.05	0.09	0.28	0.46	0.28	0.42	0.51	0.32	0.14	0.19	1.25	7.98	8.75
NW	0.00	0.05	0.23	0.28	0.19	0.28	0.14	0.09	0.23	0.14	0.23	0.60	2.45	7.76
NNW	0.00	0.05	0.19	0.51	0.05	0.09	0.05	0.09	0.05	0.00	0.05	0.00	1.11	4.49
N	0.00	0.23	0.97	1.11	0.56	0.42	0.51	0.37	0.09	0.05	0.05	0.00	4.35	4.49
VARIABLE													0.00	0.00
CALM													0.00	0.00
TOTAL	0.00	0.83	6.20	11.57	13.51	15.41	14.53	12.54	9.86	5.65	3.15	6.76	100.00	6.50

TOTAL NUMBER OF POSSIBLE OBSERVATIONS - 2184  
 TOTAL NUMBER OF OBSERVATIONS WITH VALID SPEED, DIRECTION AND STABILITY - 2120



TABLE 4A

SOUTHERN CALIFORNIA EDISON COMPANY  
 SAN ONOFRE NUCLEAR GENERATING STATION  
 3RD QUARTER, 1984  
 DAMES AND MOORE JOB NO - 00377-084-09  
 DATA PERIOD- 07/01/84 TO 09/30/84  
 STABILITY CLASS ~~###~~ (10-40 METERS )  
 WINDS AT 10 METER LEVEL

23-JAN-85

WIND FREQUENCY DISTRIBUTION  
 (FREQUENCY IN NUMBER OF OCCURRENCES)

WIND DIRECTION	UPPER CLASS INTERVALS OF WIND SPEED (MPH)												TOTAL	MEAN SPEED		
	1	2	3	4	5	6	7	8	9	10	11	>11				
NNE	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.00
NE	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.00
ENE	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.00
E	0	0	0	0	0	1	0	0	0	0	0	0	0	1	0	5.70
ESE	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.00
SE	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.00
SSE	0	0	0	1	1	1	1	0	0	2	1	3	10	8	0	8.70
S	0	0	1	3	12	11	6	8	8	5	9	9	72	7	0	7.63
SSW	0	0	0	5	17	16	13	12	4	4	2	2	75	6	0	6.33
SW	0	0	4	20	19	21	32	15	7	1	0	0	119	5	0	5.66
WSW	0	0	3	7	22	41	48	30	17	3	1	0	172	6	0	6.32
W	0	0	4	10	32	48	68	73	30	9	1	1	276	6	0	6.62
WNW	0	0	1	3	5	12	19	26	22	10	4	7	109	7	0	7.76
NW	0	0	0	1	0	0	2	1	1	0	0	8	13	10	0	10.23
NNW	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.00
N	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.00
VARIABLE													0	0	0	0.00
CALM													0	0	0	0.00
TOTAL	0	0	13	50	108	151	189	165	89	34	18	30	847	6	0	6.71

WIND FREQUENCY DISTRIBUTION  
 (FREQUENCY IN PERCENT OF TOTAL)

WIND DIRECTION	UPPER CLASS INTERVALS OF WIND SPEED (MPH)												TOTAL	MEAN SPEED		
	1	2	3	4	5	6	7	8	9	10	11	>11				
NNE	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
NE	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
ENE	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
E	0.00	0.00	0.00	0.00	0.00	0.05	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.05	5.70
ESE	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
SE	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
SSE	0.00	0.00	0.00	0.05	0.05	0.05	0.05	0.00	0.00	0.09	0.05	0.14	0.45	0.45	0.00	8.70
S	0.00	0.00	0.05	0.14	0.54	0.50	0.27	0.36	0.36	0.23	0.41	0.41	3.26	0.41	0.00	7.63
SSW	0.00	0.00	0.00	0.23	0.77	0.72	0.59	0.54	0.18	0.18	0.09	0.09	3.40	0.09	0.00	6.33
SW	0.00	0.00	0.18	0.91	0.86	0.95	1.45	0.68	0.32	0.05	0.00	0.00	5.39	0.00	0.00	5.66
WSW	0.00	0.00	0.14	0.32	1.00	1.86	2.17	1.36	0.77	0.14	0.05	0.00	7.79	0.00	0.00	6.32
W	0.00	0.00	0.18	0.45	1.45	2.17	3.08	3.31	1.36	0.41	0.05	0.05	12.50	0.05	0.00	6.62
WNW	0.00	0.00	0.05	0.14	0.23	0.54	0.86	1.18	1.00	0.45	0.18	0.32	4.94	0.32	0.00	7.76
NW	0.00	0.00	0.00	0.05	0.00	0.00	0.09	0.05	0.05	0.00	0.00	0.36	0.59	0.36	0.00	10.23
NNW	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
N	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
VARIABLE													0.00	0.00	0.00	0.00
CALM													0.00	0.00	0.00	0.00
TOTAL	0.00	0.00	0.59	2.26	4.89	6.84	8.56	7.47	4.03	1.54	0.82	1.36	38.36	0.82	0.00	6.71

TOTAL NUMBER OF POSSIBLE OBSERVATIONS - 2208  
 TOTAL NUMBER OF OBSERVATIONS WITH VALID SPEED, DIRECTION AND STABILITY - 2208

TABLE 4A

SOUTHERN CALIFORNIA EDISON COMPANY  
 SAN ONOFRE NUCLEAR GENERATING STATION  
 3RD QUARTER, 1984  
 DAMES AND MOORE JOB NO - 00377-084-09  
 DATA PERIOD- 07/01/84 TO 09/30/84  
 STABILITY CLASS #88 (10-40 METERS )  
 WINDS AT 10 METER LEVEL

23-JAN-85

WIND FREQUENCY DISTRIBUTION  
 (FREQUENCY IN NUMBER OF OCCURRENCES)

WIND DIRECTION	UPPER CLASS INTERVALS OF WIND SPEED (MPH)											TOTAL	MEAN SPEED		
	1	2	3	4	5	6	7	8	9	10	11			>11	
NNE	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.00
NE	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.00
ENE	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.00
E	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.00
ESE	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.00
SE	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.00
SSE	0	0	0	0	0	0	1	0	0	0	0	0	0	1	6.20
S	0	0	0	0	2	0	0	1	1	2	0	1	7	8.04	
SSW	0	0	0	1	0	0	0	1	0	0	0	0	2	5.55	
SW	0	0	1	1	0	0	0	0	0	0	0	0	2	3.00	
WSW	0	0	1	2	0	1	0	0	0	0	0	0	4	3.83	
W	0	0	0	3	1	2	0	0	0	0	0	0	6	4.35	
WNW	0	0	0	1	2	0	0	2	1	0	0	0	6	6.07	
NW	0	0	0	0	0	0	0	0	0	0	0	2	2	13.20	
NNW	0	0	0	0	0	0	0	0	0	0	0	0	0	0.00	
N	0	0	0	0	0	0	0	0	0	0	0	0	0	0.00	
VARIABLE													0	0.00	
CALM													0	0.00	
TOTAL	0	0	2	8	5	3	1	4	2	2	0	3	30	6.13	

WIND FREQUENCY DISTRIBUTION  
 (FREQUENCY IN PERCENT OF TOTAL)

WIND DIRECTION	UPPER CLASS INTERVALS OF WIND SPEED (MPH)											TOTAL	MEAN SPEED		
	1	2	3	4	5	6	7	8	9	10	11			>11	
NNE	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
NE	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
ENE	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
E	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
ESE	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
SE	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
SSE	0.00	0.00	0.00	0.00	0.00	0.00	0.05	0.00	0.00	0.00	0.00	0.00	0.05	0.05	6.20
S	0.00	0.00	0.00	0.00	0.09	0.00	0.00	0.05	0.05	0.09	0.00	0.05	0.32	0.09	8.04
SSW	0.00	0.00	0.00	0.05	0.00	0.00	0.00	0.05	0.00	0.00	0.00	0.00	0.09	0.05	5.55
SW	0.00	0.00	0.05	0.05	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.09	0.05	3.00
WSW	0.00	0.00	0.05	0.09	0.00	0.05	0.00	0.00	0.00	0.00	0.00	0.00	0.18	0.05	3.83
W	0.00	0.00	0.00	0.14	0.05	0.09	0.00	0.00	0.00	0.00	0.00	0.00	0.27	0.05	4.35
WNW	0.00	0.00	0.00	0.05	0.09	0.00	0.00	0.09	0.05	0.00	0.00	0.00	0.27	0.05	6.07
NW	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.09	0.09	0.05	13.20
NNW	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
N	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
VARIABLE													0.00	0.00	0.00
CALM													0.00	0.00	0.00
TOTAL	0.00	0.00	0.09	0.36	0.23	0.14	0.05	0.18	0.09	0.09	0.00	0.14	1.36	0.05	6.13

TOTAL NUMBER OF POSSIBLE OBSERVATIONS - 2208

TOTAL NUMBER OF OBSERVATIONS WITH VALID SPEED, DIRECTION AND STABILITY - 2208

TABLE 4A

SOUTHERN CALIFORNIA EDISON COMPANY  
 SAN ONOFRE NUCLEAR GENERATING STATION  
 3RD QUARTER, 1984  
 DAMES AND MOORE JOB NO. - 00377-084-09  
 DATA PERIOD- 07/01/84 TO 09/30/84  
 STABILITY CLASS \*C\* (10-40 METERS )  
 WINDS AT 10 METER LEVEL

23-JAN-85

WIND FREQUENCY DISTRIBUTION  
 (FREQUENCY IN NUMBER OF OCCURRENCES)

WIND DIRECTION	UPPER CLASS INTERVALS OF WIND SPEED (MPH)											TOTAL	MEAN SPEED	
	1	2	3	4	5	6	7	8	9	10	11			>11
NNE	0	0	1	0	1	0	0	0	1	0	0	0	3	5.50
NE	0	0	0	0	0	0	0	0	0	0	0	0	0	0.00
ENE	0	0	0	0	0	0	0	0	0	0	0	0	0	0.00
E	0	0	0	0	0	0	0	0	0	0	0	0	0	0.00
ESE	0	0	0	0	0	0	0	0	0	0	0	0	0	0.00
SE	0	0	0	0	0	0	1	0	0	0	0	1	2	9.00
SSE	0	0	0	0	0	0	2	2	0	2	0	0	6	7.92
S	0	0	0	3	4	1	1	0	1	1	1	2	14	6.74
SBW	0	0	2	2	1	1	3	0	0	0	0	0	9	4.51
SW	0	0	0	0	2	0	0	0	0	0	0	0	2	4.60
WSW	0	0	1	2	3	1	1	0	0	0	0	0	8	4.34
W	0	0	1	9	0	0	0	0	0	0	0	0	10	3.54
WNW	0	0	3	6	6	2	1	0	0	0	0	0	18	4.22
NW	0	0	2	0	0	1	2	0	0	0	0	3	8	7.85
NNW	0	0	0	0	0	0	0	0	0	0	1	0	1	11.00
N	0	0	1	0	0	0	1	0	0	0	0	0	2	4.20
VARIABLE													0	0.00
CALM													0	0.00
TOTAL	0	0	11	22	17	6	12	2	2	3	2	6	83	5.48

WIND FREQUENCY DISTRIBUTION  
 (FREQUENCY IN PERCENT OF TOTAL)

WIND DIRECTION	UPPER CLASS INTERVALS OF WIND SPEED (MPH)											TOTAL	MEAN SPEED	
	1	2	3	4	5	6	7	8	9	10	11			>11
NNE	0.00	0.00	0.05	0.00	0.05	0.00	0.00	0.00	0.05	0.00	0.00	0.00	0.14	5.50
NE	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
ENE	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
E	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
ESE	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
SE	0.00	0.00	0.00	0.00	0.00	0.00	0.05	0.00	0.00	0.00	0.00	0.05	0.09	9.00
SSE	0.00	0.00	0.00	0.00	0.00	0.00	0.09	0.09	0.00	0.09	0.00	0.00	0.27	7.92
S	0.00	0.00	0.00	0.14	0.18	0.05	0.05	0.00	0.05	0.05	0.05	0.09	0.63	6.74
SBW	0.00	0.00	0.09	0.09	0.05	0.05	0.14	0.00	0.00	0.00	0.00	0.00	0.41	4.51
SW	0.00	0.00	0.00	0.00	0.09	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.09	4.60
WSW	0.00	0.00	0.05	0.09	0.14	0.05	0.05	0.00	0.00	0.00	0.00	0.00	0.36	4.34
W	0.00	0.00	0.05	0.41	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.45	3.54
WNW	0.00	0.00	0.14	0.27	0.27	0.09	0.05	0.00	0.00	0.00	0.00	0.00	0.82	4.22
NW	0.00	0.00	0.09	0.00	0.00	0.05	0.09	0.00	0.00	0.00	0.00	0.14	0.36	7.85
NNW	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.05	0.00	0.05	11.00
N	0.00	0.00	0.05	0.00	0.00	0.00	0.05	0.00	0.00	0.00	0.00	0.00	0.09	4.20
VARIABLE													0.00	0.00
CALM													0.00	0.00
TOTAL	0.00	0.00	0.50	1.00	0.77	0.27	0.54	0.09	0.09	0.14	0.09	0.27	3.76	5.48

TOTAL NUMBER OF POSSIBLE OBSERVATIONS - 2208  
 TOTAL NUMBER OF OBSERVATIONS WITH VALID SPEED, DIRECTION AND STABILITY - 2208

TABLE 4A

SOUTHERN CALIFORNIA EDISON COMPANY  
 SAN ONOFRE NUCLEAR GENERATING STATION  
 3RD QUARTER, 1984  
 DAMES AND MOORE JOB NO. - 00377-084-09  
 DATA PERIOD- 07/01/84 TO 09/30/84  
 STABILITY CLASS #D# (10-40 METERS )  
 WINDS AT 10 METER LEVEL

23-JAN-85

WIND FREQUENCY DISTRIBUTION  
 (FREQUENCY IN NUMBER OF OCCURRENCES)

WIND DIRECTION	UPPER CLASS INTERVALS OF WIND SPEED (MPH)											TOTAL	MEAN SPEED	
	1	2	3	4	5	6	7	8	9	10	11			>11
NNE	0	4	5	16	6	3	1	2	0	0	1	0	38	3.97
NE	0	2	0	2	1	0	0	0	0	0	0	0	5	2.98
ENE	0	1	0	1	0	0	0	0	0	0	0	0	2	2.75
E	0	0	1	1	2	5	0	0	0	0	0	0	9	4.92
ESE	0	0	1	3	2	6	4	4	0	0	0	0	20	5.64
SE	0	0	4	9	15	20	18	10	12	5	2	4	99	6.45
SSE	0	0	8	15	23	17	16	14	16	10	6	8	133	6.64
S	0	3	15	6	13	7	6	8	4	4	0	3	69	5.51
SBW	0	0	16	7	3	4	2	1	1	0	0	0	34	3.94
SW	1	4	8	4	1	2	0	0	0	0	0	0	20	2.90
WSW	0	5	13	13	2	1	0	0	1	1	0	0	36	3.36
W	0	9	12	10	3	3	2	0	0	0	0	0	39	3.21
WNW	0	2	18	21	10	10	2	3	0	0	0	0	66	3.93
NW	0	2	12	21	9	4	5	4	2	3	0	2	64	4.77
NNW	0	5	13	18	8	1	3	1	2	1	0	0	52	3.87
N	0	8	9	13	8	2	1	0	0	0	0	0	41	3.35
VARIABLE													0	0.00
CALM													0	0.00
TOTAL	1	45	135	160	106	85	60	47	38	24	9	17	727	4.91

WIND FREQUENCY DISTRIBUTION  
 (FREQUENCY IN PERCENT OF TOTAL)

WIND DIRECTION	UPPER CLASS INTERVALS OF WIND SPEED (MPH)											TOTAL	MEAN SPEED	
	1	2	3	4	5	6	7	8	9	10	11			>11
NNE	0.00	0.18	0.23	0.72	0.27	0.14	0.05	0.09	0.00	0.00	0.05	0.00	1.72	3.97
NE	0.00	0.09	0.00	0.09	0.05	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.23	2.98
ENE	0.00	0.05	0.00	0.05	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.09	2.75
E	0.00	0.00	0.05	0.05	0.09	0.23	0.00	0.00	0.00	0.00	0.00	0.00	0.41	4.92
ESE	0.00	0.00	0.05	0.14	0.09	0.27	0.18	0.18	0.00	0.00	0.00	0.00	0.91	5.64
SE	0.00	0.00	0.18	0.41	0.68	0.91	0.82	0.45	0.54	0.23	0.09	0.18	4.48	6.45
SSE	0.00	0.00	0.36	0.68	1.04	0.77	0.72	0.63	0.72	0.45	0.27	0.36	6.02	6.64
S	0.00	0.14	0.68	0.27	0.59	0.32	0.27	0.36	0.18	0.18	0.00	0.14	3.13	5.51
SBW	0.00	0.00	0.72	0.32	0.14	0.18	0.09	0.05	0.05	0.00	0.00	0.00	1.54	3.94
SW	0.05	0.18	0.36	0.18	0.05	0.09	0.00	0.00	0.00	0.00	0.00	0.00	0.91	2.90
WSW	0.00	0.23	0.59	0.59	0.09	0.05	0.00	0.00	0.05	0.05	0.00	0.00	1.63	3.36
W	0.00	0.41	0.54	0.45	0.14	0.14	0.09	0.00	0.00	0.00	0.00	0.00	1.77	3.21
WNW	0.00	0.09	0.82	0.95	0.45	0.45	0.09	0.14	0.00	0.00	0.00	0.00	2.99	3.93
NW	0.00	0.09	0.54	0.95	0.41	0.18	0.23	0.18	0.09	0.14	0.00	0.00	2.90	4.77
NNW	0.00	0.23	0.59	0.82	0.36	0.05	0.14	0.05	0.09	0.05	0.00	0.00	2.36	3.87
N	0.00	0.36	0.41	0.59	0.36	0.09	0.05	0.00	0.00	0.00	0.00	0.00	1.86	3.35
VARIABLE													0.00	0.00
CALM													0.00	0.00
TOTAL	0.05	2.04	6.11	7.25	4.80	3.85	2.72	2.13	1.72	1.09	0.41	0.77	32.93	4.91

TOTAL NUMBER OF POSSIBLE OBSERVATIONS - 2208  
 TOTAL NUMBER OF OBSERVATIONS WITH VALID SPEED, DIRECTION AND STABILITY - 2208

TABLE 4A

SOUTHERN CALIFORNIA EDISON COMPANY  
 SAN ONOFRE NUCLEAR GENERATING STATION  
 3RD QUARTER, 1984  
 DAMES AND MOORE JOB NO - 00377-084-09  
 DATA PERIOD- 07/01/84 TO 09/30/84  
 STABILITY CLASS #E# (10-40 METERS )  
 WINDS AT 10 METER LEVEL

23-JAN-85

WIND FREQUENCY DISTRIBUTION  
 (FREQUENCY IN NUMBER OF OCCURRENCES)

WIND DIRECTION	UPPER CLASS INTERVALS OF WIND SPEED (MPH)											TOTAL	MEAN SPEED	
	1	2	3	4	5	6	7	8	9	10	11			>11
NNE	0	6	21	31	25	12	2	1	0	0	0	0	98	3.91
NE	0	3	7	2	0	0	0	0	0	0	0	0	12	2.47
ENE	0	0	3	1	1	0	0	0	0	0	0	0	5	3.08
E	0	2	1	3	0	0	0	0	0	0	0	0	6	2.92
ESE	0	1	3	3	2	1	0	1	0	0	0	0	11	3.95
SE	0	3	1	9	5	13	5	7	7	3	1	0	56	5.97
SSE	0	3	13	6	13	1	2	0	1	1	1	3	44	4.98
S	1	2	11	4	1	0	0	0	0	0	0	0	19	2.71
SSW	0	1	3	1	0	0	0	0	0	0	0	0	5	2.68
SW	0	1	2	1	1	0	0	0	0	0	0	0	5	2.92
WSW	0	0	2	1	0	0	0	0	0	0	0	0	3	2.90
W	0	2	1	2	1	0	0	0	0	0	0	0	6	2.53
WNN	0	1	4	3	2	3	2	1	0	0	0	0	16	4.31
NW	0	0	0	3	3	1	0	0	0	0	0	0	7	4.37
NNW	0	1	1	0	0	3	1	1	0	0	0	0	7	4.90
N	0	5	15	12	6	2	1	0	1	0	0	0	42	3.38
VARIABLE													1	0.90
CALM													0	0.00
TOTAL	1	31	98	92	60	36	13	13	9	4	2	3	343	4.10

WIND FREQUENCY DISTRIBUTION  
 (FREQUENCY IN PERCENT OF TOTAL)

WIND DIRECTION	UPPER CLASS INTERVALS OF WIND SPEED (MPH)											TOTAL	MEAN SPEED	
	1	2	3	4	5	6	7	8	9	10	11			>11
NNE	0.00	0.27	0.95	1.40	1.13	0.54	0.09	0.05	0.00	0.00	0.00	0.00	4.44	3.91
NE	0.00	0.14	0.32	0.09	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.54	2.47
ENE	0.00	0.00	0.14	0.05	0.05	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.23	3.08
E	0.00	0.09	0.05	0.14	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.27	2.92
ESE	0.00	0.05	0.14	0.14	0.09	0.05	0.00	0.05	0.00	0.00	0.00	0.00	0.50	3.95
SE	0.00	0.14	0.05	0.41	0.23	0.59	0.23	0.41	0.32	0.14	0.05	0.00	2.54	5.97
SSE	0.00	0.14	0.59	0.27	0.59	0.05	0.09	0.00	0.05	0.05	0.05	0.14	1.99	4.98
S	0.05	0.09	0.50	0.18	0.05	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.86	2.71
SSW	0.00	0.05	0.14	0.05	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.23	2.68
SW	0.00	0.05	0.09	0.05	0.05	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.23	2.92
WSW	0.00	0.00	0.09	0.05	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.14	2.90
W	0.00	0.09	0.05	0.09	0.05	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.27	2.53
WNN	0.00	0.05	0.18	0.14	0.09	0.14	0.09	0.05	0.00	0.00	0.00	0.00	0.72	4.31
NW	0.00	0.00	0.00	0.14	0.14	0.05	0.00	0.00	0.00	0.00	0.00	0.00	0.32	4.37
NNW	0.00	0.05	0.05	0.00	0.00	0.14	0.05	0.05	0.00	0.00	0.00	0.00	0.32	4.90
N	0.00	0.23	0.68	0.54	0.27	0.09	0.05	0.00	0.05	0.00	0.00	0.00	1.90	3.38
VARIABLE													0.05	0.90
CALM													0.00	0.00
TOTAL	0.05	1.40	3.99	3.71	2.72	1.63	0.59	0.59	0.41	0.18	0.09	0.14	15.53	4.10

TOTAL NUMBER OF POSSIBLE OBSERVATIONS - 2208  
 TOTAL NUMBER OF OBSERVATIONS WITH VALID SPEED, DIRECTION AND STABILITY - 2208



TABLE 4A

SOUTHERN CALIFORNIA EDISON COMPANY  
 SAN ONOFRE NUCLEAR GENERATING STATION  
 3RD QUARTER, 1984  
 DAMES AND MOORE JOB NO. - 00377-084-09  
 DATA PERIOD- 07/01/84 TO 09/30/84  
 STABILITY CLASS #F# (10-40 METERS )  
 WINDS AT 10 METER LEVEL

23-JAN-85

WIND FREQUENCY DISTRIBUTION  
 (FREQUENCY IN NUMBER OF OCCURRENCES)

WIND DIRECTION	UPPER CLASS INTERVALS OF WIND SPEED (MPH)											TOTAL	MEAN SPEED	
	1	2	3	4	5	6	7	8	9	10	11			>11
NNE	0	0	6	11	21	19	11	6	1	1	0	0	76	5.09
NE	0	0	0	1	0	1	0	0	0	0	0	0	2	4.40
ENE	0	0	0	0	0	0	0	0	0	0	0	0	0	0.00
E	0	0	1	0	0	0	0	0	0	0	0	0	1	2.20
ESE	0	1	0	0	0	0	0	0	0	0	0	0	1	1.60
SE	0	0	1	0	0	0	0	0	0	0	1	0	2	6.50
SSE	0	1	0	4	3	0	0	0	0	0	0	0	8	3.64
S	0	0	0	0	1	0	0	0	0	0	0	0	1	4.80
SSW	0	0	0	1	0	0	0	0	0	0	0	0	1	3.20
SW	0	1	0	0	0	0	0	0	0	0	0	0	1	1.70
WSW	0	0	0	0	0	0	0	0	0	0	0	0	0	0.00
W	0	0	0	0	0	1	0	0	0	0	0	0	1	5.10
WNW	0	0	0	0	0	1	1	1	0	0	0	0	3	6.40
NW	0	0	0	1	0	0	0	0	0	1	0	0	2	6.65
NNW	0	0	0	0	0	0	1	0	0	0	0	0	1	6.50
N	0	0	0	2	5	4	5	4	0	0	0	0	20	5.74
VARIABLE													0	0.00
CALM													0	0.00
TOTAL	0	3	8	20	30	26	18	11	1	2	1	0	120	5.09

WIND FREQUENCY DISTRIBUTION  
 (FREQUENCY IN PERCENT OF TOTAL)

WIND DIRECTION	UPPER CLASS INTERVALS OF WIND SPEED (MPH)											TOTAL	MEAN SPEED	
	1	2	3	4	5	6	7	8	9	10	11			>11
NNE	0.00	0.00	0.27	0.50	0.95	0.86	0.50	0.27	0.05	0.05	0.00	0.00	3.44	5.09
NE	0.00	0.00	0.00	0.05	0.00	0.05	0.00	0.00	0.00	0.00	0.00	0.00	0.09	4.40
ENE	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
E	0.00	0.00	0.05	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.05	2.20
ESE	0.00	0.05	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.05	1.60
SE	0.00	0.00	0.05	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.05	0.00	0.09	6.50
SSE	0.00	0.05	0.00	0.18	0.14	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.36	3.64
S	0.00	0.00	0.00	0.00	0.05	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.05	4.80
SSW	0.00	0.00	0.00	0.05	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.05	3.20
SW	0.00	0.05	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.05	1.70
WSW	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
W	0.00	0.00	0.00	0.00	0.00	0.05	0.00	0.00	0.00	0.00	0.00	0.00	0.05	5.10
WNW	0.00	0.00	0.00	0.00	0.00	0.05	0.05	0.05	0.00	0.00	0.00	0.00	0.14	6.40
NW	0.00	0.00	0.00	0.05	0.00	0.00	0.00	0.00	0.00	0.05	0.00	0.00	0.09	6.65
NNW	0.00	0.00	0.00	0.00	0.00	0.00	0.05	0.00	0.00	0.00	0.00	0.00	0.05	6.50
N	0.00	0.00	0.00	0.09	0.23	0.18	0.23	0.18	0.00	0.00	0.00	0.00	0.91	5.74
VARIABLE													0.00	0.00
CALM													0.00	0.00
TOTAL	0.00	0.14	0.36	0.91	1.36	1.18	0.82	0.50	0.05	0.09	0.05	0.00	5.43	5.09

TOTAL NUMBER OF POSSIBLE OBSERVATIONS - 2208

TOTAL NUMBER OF OBSERVATIONS WITH VALID SPEED, DIRECTION AND STABILITY - 2208



TABLE 4A

SOUTHERN CALIFORNIA EDISON COMPANY  
 SAN JONFRE NUCLEAR GENERATING STATION  
 WIND QUARTER, 1984  
 DAMES AND MOORE JOB NO - 00377-084-09  
 DATA PERIOD- 07/01/84 TO 09/30/84  
 STABILITY CLASS #0# (10-40 METERS )  
 WINDS AT 10 METER LEVEL

23-JAN-85

WIND FREQUENCY DISTRIBUTION  
 (FREQUENCY IN NUMBER OF OCCURRENCES)

WIND DIRECTION	UPPER CLASS INTERVALS OF WIND SPEED (MPH)											TOTAL	MEAN SPEED	
	1	2	3	4	5	6	7	8	9	10	11			>11
NNE	0.	1.	2.	1.	0.	5	10.	8	8	2	1.	0.	38.	6.86
NE	0.	0.	0.	0.	1.	0	0	0.	0	0	0.	0.	1.	5.00
ENE	0.	0.	0.	0.	0.	0	0	0.	0	0	0.	0.	0.	0.00
E	0.	0.	0.	0.	0.	0	0	0.	0	0	0.	0.	0.	0.00
ESE	0.	0.	0.	0.	0.	0	0	0.	0	0	0.	0.	0.	0.00
SE	0.	0.	0.	0.	2	1	0	0.	0	0	0.	0.	3.	4.83
SSE	0.	0.	0.	0.	0.	0	0	0.	0	0	0.	0.	0.	0.00
S	0.	1.	0	0.	0.	0	0	0.	0	0	0.	0.	1.	1.50
SSW	0.	0.	0	0.	0.	0	0	0.	0	0	0.	0.	0.	0.00
SW	0.	0.	0.	0.	0.	0	0	0.	0	0	0.	0.	0.	0.00
WSW	0.	0.	0.	0.	0.	0	0	0.	0	0	0.	0.	0.	0.00
W	0.	0.	0	0.	0.	0	0	1.	0	0	0.	0.	1.	7.60
WNW	0.	0.	0	0.	2.	0	2.	0	1.	0	0.	0.	5.	6.08
NW	0.	0	0.	1.	0.	1.	0.	0	0	0.	0.	0.	2.	4.45
NNW	0.	0.	0	0.	0.	0	0	0.	0	0	0.	0.	0.	0.00
N	0.	0.	0	1.	1.	1.	1.	1.	2	0	0.	0.	7.	6.53
VARIABLE													0.	0.00
CALM													0.	0.00
TOTAL	0.	2.	2.	3.	6.	8.	13.	10.	11.	2.	1.	0.	58.	6.45

WIND FREQUENCY DISTRIBUTION  
 (FREQUENCY IN PERCENT OF TOTAL)

WIND DIRECTION	UPPER CLASS INTERVALS OF WIND SPEED (MPH)											TOTAL	MEAN SPEED	
	1	2	3	4	5	6	7	8	9	10	11			>11
NNE	0.00	0.05	0.09	0.05	0.00	0.23	0.45	0.36	0.36	0.09	0.05	0.00	1.72	6.86
NE	0.00	0.00	0.00	0.00	0.05	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.05	5.00
ENE	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
E	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
ESE	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
SE	0.00	0.00	0.00	0.00	0.09	0.05	0.00	0.00	0.00	0.00	0.00	0.00	0.14	4.83
SSE	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
S	0.00	0.05	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.05	1.50
SSW	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
SW	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
WSW	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
W	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.05	0.00	0.00	0.00	0.00	0.05	7.60
WNW	0.00	0.00	0.00	0.00	0.09	0.00	0.09	0.00	0.05	0.00	0.00	0.00	0.23	6.08
NW	0.00	0.00	0.00	0.05	0.00	0.05	0.00	0.00	0.00	0.00	0.00	0.00	0.09	4.45
NNW	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
N	0.00	0.00	0.00	0.05	0.05	0.05	0.05	0.05	0.09	0.00	0.00	0.00	0.32	6.53
VARIABLE													0.00	0.00
CALM													0.00	0.00
TOTAL	0.00	0.07	0.09	0.14	0.27	0.36	0.59	0.45	0.50	0.09	0.05	0.00	2.63	6.45

TOTAL NUMBER OF POSSIBLE OBSERVATIONS - 2208

TOTAL NUMBER OF OBSERVATIONS WITH VALID SPEED, DIRECTION AND STABILITY - 2208

TABLE 4A

SOUTHERN CALIFORNIA EDISON COMPANY  
 SAN ONOFRE NUCLEAR GENERATING STATION  
 3RD QUARTER, 1984  
 DAMES AND MOORE JOB NO - 00377-084-09  
 DATA PERIOD- 07/01/84 TO 09/30/84  
 STABILITY CLASS ALL (10-40 METERS )  
 WINDS AT 10 METER LEVEL

23-JAN-85

WIND FREQUENCY DISTRIBUTION  
 (FREQUENCY IN NUMBER OF OCCURRENCES)

WIND DIRECTION	UPPER CLASS INTERVALS OF WIND SPEED (MPH)												TOTAL	MEAN SPEED
	1	2	3	4	5	6	7	8	9	10	11	>11		
NNE	0	11	35	59	53	39	24	17	10	3	2	0	253	4.70
NE	0	5	7	5	2	1	0	0	0	0	0	0	20	2.92
ENE	0	1	3	2	1	0	0	0	0	0	0	0	7	2.99
E	0	2	3	4	2	6	0	0	0	0	0	0	17	4.10
ESE	0	2	4	6	4	7	4	5	0	0	0	0	32	4.93
SE	0	3	6	18	22	34	24	19	19	8	4	5	162	6.28
SSE	0	4	21	26	40	19	22	16	17	15	8	14	202	6.28
S	1	6	27	16	33	19	13	17	14	12	10	15	183	6.22
SSW	0	1	21	17	21	21	18	14	5	4	2	2	126	5.37
SW	1	6	15	26	23	23	32	15	7	1	0	0	149	5.12
WSW	0	5	20	25	27	44	49	30	18	4	1	0	223	5.68
W	0	11	18	34	37	54	70	74	30	9	1	1	339	6.03
WNW	0	3	26	34	27	28	27	33	24	10	4	7	223	5.99
NW	0	2	14	27	12	7	9	5	3	4	0	15	98	5.92
NNW	0	6	14	18	8	4	5	2	2	1	1	0	61	4.14
N	0	13	25	28	20	9	9	5	3	0	0	0	112	4.00
VARIABLE CALM													1	0.70
TOTAL	2	81	259	345	332	315	306	252	152	71	33	59	2208	5.56

WIND FREQUENCY DISTRIBUTION  
 (FREQUENCY IN PERCENT OF TOTAL)

WIND DIRECTION	UPPER CLASS INTERVALS OF WIND SPEED (MPH)												TOTAL	MEAN SPEED
	1	2	3	4	5	6	7	8	9	10	11	>11		
NNE	0.00	0.50	1.59	2.67	2.40	1.77	1.09	0.77	0.45	0.14	0.09	0.00	11.46	4.70
NE	0.00	0.23	0.32	0.23	0.09	0.05	0.00	0.00	0.00	0.00	0.00	0.00	0.91	2.92
ENE	0.00	0.05	0.14	0.09	0.05	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.32	2.99
E	0.00	0.09	0.14	0.18	0.09	0.27	0.00	0.00	0.00	0.00	0.00	0.00	0.77	4.10
ESE	0.00	0.09	0.18	0.27	0.18	0.32	0.18	0.23	0.00	0.00	0.00	0.00	1.45	4.93
SE	0.00	0.14	0.27	0.82	1.00	1.54	1.09	0.86	0.86	0.36	0.18	0.23	7.34	6.28
SSE	0.00	0.18	0.95	1.18	1.81	0.86	1.00	0.72	0.77	0.68	0.36	0.63	9.15	6.28
S	0.05	0.27	1.22	0.72	1.49	0.86	0.59	0.77	0.63	0.54	0.45	0.68	8.29	6.22
SSW	0.00	0.05	0.95	0.77	0.95	0.95	0.82	0.63	0.23	0.18	0.09	0.09	5.71	5.37
SW	0.05	0.27	0.68	1.18	1.04	1.04	1.45	0.68	0.32	0.05	0.00	0.00	6.75	5.12
WSW	0.00	0.23	0.91	1.13	1.22	1.99	2.22	1.36	0.82	0.18	0.05	0.00	10.10	5.68
W	0.00	0.50	0.82	1.54	1.68	2.45	3.17	3.35	1.36	0.41	0.05	0.05	15.35	6.03
WNW	0.00	0.14	1.18	1.54	1.22	1.27	1.22	1.49	1.09	0.45	0.18	0.32	10.10	5.99
NW	0.00	0.09	0.63	1.22	0.54	0.32	0.41	0.23	0.14	0.18	0.00	0.68	4.44	5.92
NNW	0.00	0.27	0.63	0.82	0.36	0.18	0.23	0.09	0.09	0.05	0.05	0.00	2.76	4.14
N	0.00	0.59	1.13	1.27	0.91	0.41	0.41	0.23	0.14	0.00	0.00	0.00	5.07	4.00
VARIABLE CALM													0.05	0.70
TOTAL	0.09	3.67	11.73	15.63	15.04	14.27	13.86	11.41	6.88	3.22	1.49	2.67	100.00	5.56

TOTAL NUMBER OF POSSIBLE OBSERVATIONS - 2208  
 TOTAL NUMBER OF OBSERVATIONS WITH VALID SPEED, DIRECTION AND STABILITY - 2208

TABLE 4A

SOUTHERN CALIFORNIA EDISON COMPANY  
 SAN ONOFRE NUCLEAR GENERATING STATION  
 4TH QUARTER, 1984  
 DAMES AND MOORE JOB NO - 00377-084-09  
 DATA PERIOD- 10/01/84 TO 12/31/84  
 STABILITY CLASS #AW (10-40 METERS )  
 WINDS AT 10 METER LEVEL

28-JAN-85

WIND FREQUENCY DISTRIBUTION  
 (FREQUENCY IN NUMBER OF OCCURRENCES)

WIND DIRECTION	UPPER CLASS INTERVALS OF WIND SPEED (MPH)												TOTAL	MEAN SPEED
	1	2	3	4	5	6	7	8	9	10	11	>11		
NNE	0	0	0	0	0	0	0	0	0	1	0	1	2	11.00
NE	0	0	0	0	0	0	0	0	0	0	0	1	1	12.00
ENE	0	0	0	0	1	0	0	0	0	0	0	0	1	4.90
E	0	0	0	0	0	0	0	0	0	0	0	0	0	0.00
ESE	0	0	0	0	0	0	0	0	0	0	0	0	0	0.00
SE	0	0	0	0	0	1	0	0	1	3	1	0	6	8.75
SSE	0	0	0	1	2	1	3	2	3	2	2	2	18	8.02
S	0	0	1	8	5	9	7	4	5	2	2	1	44	6.25
SSW	0	0	4	12	10	8	10	8	3	4	2	4	65	6.27
SW	0	0	7	13	21	11	12	8	1	1	2	1	77	5.29
WSW	0	0	5	20	34	22	29	16	1	2	2	0	131	5.47
W	0	0	3	11	20	35	23	15	2	2	2	2	115	5.99
WNW	0	0	1	0	3	4	2	8	4	6	7	4	39	8.29
NW	0	0	0	0	0	0	0	0	0	0	1	1	2	11.45
NNW	0	0	0	0	0	0	0	0	0	0	0	0	0	0.00
N	0	0	1	1	0	0	0	0	0	0	0	2	4	8.15
VARIABLE													0	0.00
CALM													0	0.00
TOTAL	0	0	22	56	96	91	96	61	20	23	21	19	505	6.14

WIND FREQUENCY DISTRIBUTION  
 (FREQUENCY IN PERCENT OF TOTAL)

WIND DIRECTION	UPPER CLASS INTERVALS OF WIND SPEED (MPH)												TOTAL	MEAN SPEED
	1	2	3	4	5	6	7	8	9	10	11	>11		
NNE	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.05	0.00	0.05	0.09	11.00
NE	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.05	0.05	12.00
ENE	0.00	0.00	0.00	0.00	0.05	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.05	4.90
E	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
ESE	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
SE	0.00	0.00	0.00	0.00	0.00	0.05	0.00	0.00	0.05	0.14	0.05	0.00	0.27	8.75
SSE	0.00	0.00	0.00	0.05	0.09	0.05	0.14	0.09	0.14	0.09	0.09	0.09	0.82	8.02
S	0.00	0.00	0.05	0.37	0.23	0.41	0.32	0.18	0.23	0.09	0.09	0.05	2.01	6.25
SSW	0.00	0.00	0.18	0.55	0.46	0.37	0.46	0.37	0.14	0.18	0.09	0.18	2.97	6.27
SW	0.00	0.00	0.32	0.59	0.96	0.50	0.55	0.37	0.05	0.05	0.09	0.05	3.52	5.29
WSW	0.00	0.00	0.23	0.91	1.55	1.01	1.33	0.73	0.05	0.09	0.09	0.00	5.99	5.47
W	0.00	0.00	0.14	0.50	0.91	1.60	1.05	0.69	0.09	0.09	0.09	0.09	5.25	5.99
WNW	0.00	0.00	0.05	0.00	0.14	0.18	0.09	0.37	0.18	0.27	0.32	0.18	1.79	8.29
NW	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.05	0.05	0.09	11.45
NNW	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
N	0.00	0.00	0.05	0.05	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.09	0.19	8.15
VARIABLE													0.00	0.00
CALM													0.00	0.00
TOTAL	0.00	0.00	1.01	3.02	4.39	4.16	3.93	2.79	0.91	1.05	0.96	0.87	23.09	6.14

TOTAL NUMBER OF POSSIBLE OBSERVATIONS - 2208  
 TOTAL NUMBER OF OBSERVATIONS WITH VALID SPEED, DIRECTION AND STABILITY - 2187

TABLE 4A

SOUTHERN CALIFORNIA EDISON COMPANY  
 SAN ONOFRE NUCLEAR GENERATING STATION  
 4TH QUARTER, 1984  
 DAMES AND MOORE JOB NO - 00377-084-09  
 DATA PERIOD- 10/01/84 TO 12/31/84  
 STABILITY CLASS #B\* (10-40 METERS )  
 WINDS AT 10 METER LEVEL

28-JAN-85

WIND FREQUENCY DISTRIBUTION  
 (FREQUENCY IN NUMBER OF OCCURRENCES)

WIND DIRECTION	UPPER CLASS INTERVALS OF WIND SPEED (MPH)											TOTAL	MEAN SPEED		
	1	2	3	4	5	6	7	8	9	10	11			>11	
NNE	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.00
NE	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.00
ENE	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.00
E	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.00
ESE	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.00
SE	0	0	0	0	0	0	0	2	0	0	1	0	3	8.67	
SSE	0	0	0	0	0	0	1	1	0	0	0	1	3	9.37	
S	0	0	0	1	2	0	0	1	0	1	0	1	6	7.23	
SSW	0	0	0	0	0	1	0	0	0	0	0	0	1	5.10	
SW	0	0	0	1	0	0	0	1	0	0	0	0	2	5.35	
WSW	0	0	0	2	0	0	0	0	0	0	0	0	2	3.55	
W	0	0	0	2	0	0	0	0	0	0	0	0	2	3.95	
WNW	0	0	1	1	0	1	0	0	0	0	0	0	3	4.20	
NW	0	0	0	0	0	0	0	1	0	0	0	0	1	7.70	
NNW	0	0	0	0	0	0	0	0	0	0	0	0	0	0.00	
N	0	0	0	0	0	0	0	0	0	0	0	0	0	0.00	
VARIABLE													0	0.00	
CALM													0	0.00	
TOTAL	0	0	1	7	2	2	1	6	0	1	1	2	23	6.45	

WIND FREQUENCY DISTRIBUTION  
 (FREQUENCY IN PERCENT OF TOTAL)

WIND DIRECTION	UPPER CLASS INTERVALS OF WIND SPEED (MPH)											TOTAL	MEAN SPEED		
	1	2	3	4	5	6	7	8	9	10	11			>11	
NNE	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
NE	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
ENE	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
E	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
ESE	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
SE	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.09	0.00	0.00	0.05	0.00	0.14	8.67	
SSE	0.00	0.00	0.00	0.00	0.00	0.00	0.05	0.05	0.00	0.00	0.00	0.05	0.14	9.37	
S	0.00	0.00	0.00	0.05	0.09	0.00	0.00	0.05	0.00	0.05	0.00	0.05	0.27	7.23	
SSW	0.00	0.00	0.00	0.00	0.00	0.05	0.00	0.00	0.00	0.00	0.00	0.00	0.05	5.10	
SW	0.00	0.00	0.00	0.05	0.00	0.00	0.00	0.05	0.00	0.00	0.00	0.00	0.09	5.35	
WSW	0.00	0.00	0.00	0.09	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.09	3.55	
W	0.00	0.00	0.00	0.09	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.09	3.95	
WNW	0.00	0.00	0.05	0.05	0.00	0.05	0.00	0.00	0.00	0.00	0.00	0.00	0.14	4.20	
NW	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.05	0.00	0.00	0.00	0.00	0.05	7.70	
NNW	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
N	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
VARIABLE													0.00	0.00	
CALM													0.00	0.00	
TOTAL	0.00	0.00	0.05	0.32	0.09	0.09	0.05	0.27	0.00	0.05	0.05	0.09	1.05	6.45	

TOTAL NUMBER OF POSSIBLE OBSERVATIONS - 2208  
 TOTAL NUMBER OF OBSERVATIONS WITH VALID SPEED, DIRECTION AND STABILITY - 2187

TABLE 4A

SOUTHERN CALIFORNIA EDISON COMPANY  
 SAN ONOFRE NUCLEAR GENERATING STATION  
 4TH QUARTER, 1984  
 DAMES AND MOORE JOB NO - 00377-084-09  
 DATA PERIOD- 10/01/84 TO 12/31/84  
 STABILITY CLASS #C# (10-40 METERS )  
 WINDS AT 10 METER LEVEL

28-JAN-85

WIND FREQUENCY DISTRIBUTION  
 (FREQUENCY IN NUMBER OF OCCURRENCES)

WIND DIRECTION	UPPER CLASS INTERVALS OF WIND SPEED (MPH)											TOTAL	MEAN SPEED	
	1	2	3	4	5	6	7	8	9	10	11			>11
NNE	0	0	0	0	0	1	0	0	0	1	1	0	3	8.77
NE	0	0	0	0	0	0	0	1	0	0	1	0	2	9.30
ENE	0	0	0	0	0	0	0	0	0	0	0	0	0	0.00
E	0	0	0	0	0	0	0	0	0	0	0	0	0	0.00
ESE	0	0	0	0	0	0	0	0	0	0	0	0	0	0.00
SE	0	0	0	0	0	1	0	0	0	4	1	2	8	9.84
SSE	0	0	1	1	0	0	0	2	0	0	0	1	5	6.60
S	0	0	1	0	1	0	0	0	0	0	0	0	2	3.70
SSW	0	0	1	0	0	0	1	0	0	0	0	0	2	4.65
SW	0	0	0	1	2	0	0	0	2	0	0	0	5	6.02
WSW	0	0	4	0	1	1	0	0	0	0	0	0	6	3.43
W	0	0	0	1	0	0	0	0	0	0	0	0	1	3.90
WNW	0	0	0	0	1	0	1	0	0	0	0	0	2	5.60
NW	0	0	0	1	0	1	0	0	0	0	1	0	3	6.67
NNW	0	0	0	0	1	0	0	0	0	0	0	2	3	15.57
N	0	0	0	1	0	0	0	0	0	0	0	0	1	3.70
VARIABLE													0	0.00
CALM													0	0.00
TOTAL	0	0	7	5	6	4	2	3	2	5	4	5	43	7.20

WIND FREQUENCY DISTRIBUTION  
 (FREQUENCY IN PERCENT OF TOTAL)

WIND DIRECTION	UPPER CLASS INTERVALS OF WIND SPEED (MPH)											TOTAL	MEAN SPEED	
	1	2	3	4	5	6	7	8	9	10	11			>11
NNE	0.00	0.00	0.00	0.00	0.00	0.05	0.00	0.00	0.00	0.05	0.05	0.00	0.14	8.77
NE	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.05	0.00	0.00	0.05	0.00	0.09	9.30
ENE	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
E	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
ESE	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
SE	0.00	0.00	0.00	0.00	0.00	0.05	0.00	0.00	0.00	0.18	0.05	0.09	0.37	9.84
SSE	0.00	0.00	0.05	0.05	0.00	0.00	0.00	0.09	0.00	0.00	0.00	0.05	0.23	6.60
S	0.00	0.00	0.05	0.00	0.05	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.09	3.70
SSW	0.00	0.00	0.05	0.00	0.00	0.00	0.05	0.00	0.00	0.00	0.00	0.00	0.09	4.65
SW	0.00	0.00	0.00	0.05	0.09	0.00	0.00	0.00	0.09	0.00	0.00	0.00	0.23	6.02
WSW	0.00	0.00	0.18	0.00	0.05	0.05	0.00	0.00	0.00	0.00	0.00	0.00	0.27	3.43
W	0.00	0.00	0.00	0.05	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.05	3.90
WNW	0.00	0.00	0.00	0.00	0.05	0.00	0.05	0.00	0.00	0.00	0.00	0.00	0.09	5.60
NW	0.00	0.00	0.00	0.05	0.00	0.05	0.00	0.00	0.00	0.00	0.05	0.00	0.14	6.67
NNW	0.00	0.00	0.00	0.00	0.05	0.00	0.00	0.00	0.00	0.00	0.00	0.09	0.14	15.57
N	0.00	0.00	0.00	0.05	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.05	3.70
VARIABLE													0.00	0.00
CALM													0.00	0.00
TOTAL	0.00	0.00	0.32	0.23	0.27	0.18	0.09	0.14	0.09	0.23	0.18	0.23	1.97	7.20

TOTAL NUMBER OF POSSIBLE OBSERVATIONS - 2208  
 TOTAL NUMBER OF OBSERVATIONS WITH VALID SPEED, DIRECTION AND STABILITY - 2187



TABLE 4A

SOUTHERN CALIFORNIA EDISON COMPANY  
 SAN ONOFRE NUCLEAR GENERATING STATION  
 4TH QUARTER, 1984  
 DAMES AND MOORE JOB NO. - 00377-084-09  
 DATA PERIOD- 10/01/84 TO 12/31/84  
 STABILITY CLASS #DW (10-40 METERS )  
 WINDS AT 10 METER LEVEL

28-JAN-85

WIND FREQUENCY DISTRIBUTION  
 (FREQUENCY IN NUMBER OF OCCURRENCES)

WIND DIRECTION	UPPER CLASS INTERVALS OF WIND SPEED (MPH)											TOTAL	MEAN SPEED	
	1	2	3	4	5	6	7	8	9	10	11			>11
NNE	0	0	3	2	3	7	1	0	1	1	1	0	19	5.43
NE	0	1	1	1	0	0	0	1	0	0	0	1	5	5.64
ENE	0	0	0	0	0	0	0	0	0	0	0	0	0	0.00
E	0	0	1	0	3	4	1	0	0	0	0	0	9	5.07
ESE	0	0	1	2	2	3	6	6	1	1	2	3	27	7.84
SE	0	0	2	8	6	16	10	13	16	12	3	17	103	8.22
SSE	0	0	3	7	8	3	5	11	3	9	2	27	78	10.60
S	0	0	5	2	2	3	2	2	4	3	3	11	37	8.97
SSW	0	1	3	4	2	4	1	2	5	2	1	6	31	7.49
SW	0	2	1	2	2	1	1	5	6	2	3	3	28	8.06
WSW	0	0	2	1	1	0	0	1	0	0	2	1	8	7.20
W	0	0	3	3	2	0	0	1	0	0	0	0	9	3.81
WNW	0	1	3	5	6	3	2	0	2	0	1	1	24	5.21
NW	0	3	3	2	9	6	4	5	3	1	2	1	39	5.76
NNW	0	1	5	5	3	0	3	0	0	2	0	5	24	7.03
N	0	1	6	4	2	2	1	0	1	0	0	2	19	5.17
VARIABLE CALM													0	0.00
TOTAL	0	10	42	48	51	52	37	47	42	33	20	78	460	7.74

WIND FREQUENCY DISTRIBUTION  
 (FREQUENCY IN PERCENT OF TOTAL)

WIND DIRECTION	UPPER CLASS INTERVALS OF WIND SPEED (MPH)											TOTAL	MEAN SPEED	
	1	2	3	4	5	6	7	8	9	10	11			>11
NNE	0.00	0.00	0.14	0.09	0.14	0.32	0.05	0.00	0.05	0.05	0.05	0.00	0.87	5.43
NE	0.00	0.05	0.05	0.05	0.00	0.00	0.00	0.05	0.00	0.00	0.00	0.05	0.23	5.64
ENE	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
E	0.00	0.00	0.05	0.00	0.14	0.18	0.05	0.00	0.00	0.00	0.00	0.00	0.41	5.07
ESE	0.00	0.00	0.05	0.09	0.09	0.14	0.27	0.27	0.05	0.05	0.09	0.14	1.23	7.84
SE	0.00	0.00	0.09	0.37	0.27	0.73	0.46	0.59	0.73	0.55	0.14	0.78	4.71	8.22
SSE	0.00	0.00	0.14	0.32	0.37	0.14	0.23	0.50	0.14	0.41	0.09	1.23	3.57	10.60
S	0.00	0.00	0.23	0.09	0.09	0.14	0.09	0.09	0.18	0.14	0.14	0.50	1.69	8.97
SSW	0.00	0.05	0.14	0.18	0.09	0.18	0.05	0.09	0.23	0.09	0.05	0.27	1.42	7.49
SW	0.00	0.09	0.05	0.09	0.09	0.05	0.05	0.23	0.27	0.09	0.14	0.14	1.28	8.06
WSW	0.00	0.00	0.09	0.05	0.05	0.00	0.00	0.05	0.00	0.00	0.09	0.05	0.37	7.20
W	0.00	0.00	0.14	0.14	0.09	0.00	0.00	0.05	0.00	0.00	0.00	0.00	0.41	3.81
WNW	0.00	0.05	0.14	0.23	0.27	0.14	0.09	0.00	0.09	0.00	0.05	0.05	1.10	5.21
NW	0.00	0.14	0.14	0.09	0.41	0.27	0.18	0.23	0.14	0.05	0.09	0.05	1.78	5.76
NNW	0.00	0.05	0.23	0.23	0.14	0.00	0.14	0.00	0.00	0.09	0.00	0.23	1.10	7.03
N	0.00	0.05	0.27	0.18	0.09	0.09	0.05	0.00	0.05	0.00	0.00	0.09	0.87	5.17
VARIABLE CALM													0.00	0.00
TOTAL	0.00	0.46	1.92	2.19	2.33	2.38	1.69	2.15	1.92	1.51	0.91	3.57	21.03	7.74

TOTAL NUMBER OF POSSIBLE OBSERVATIONS - 2208  
 TOTAL NUMBER OF OBSERVATIONS WITH VALID SPEED, DIRECTION AND STABILITY - 2187



TABLE 4A

SOUTHERN CALIFORNIA EDISON COMPANY  
 SAN ONOFRE NUCLEAR GENERATING STATION  
 4TH QUARTER, 1984  
 DAMES AND MOORE JOB NO - 00377-084-09  
 DATA PERIOD- 10/01/84 TO 12/31/84  
 STABILITY CLASS #E# (10-40 METERS )  
 WINDS AT 10 METER LEVEL

28-JAN-85

WIND FREQUENCY DISTRIBUTION  
 (FREQUENCY IN NUMBER OF OCCURRENCES)

WIND DIRECTION	UPPER CLASS INTERVALS OF WIND SPEED (MPH)											TOTAL	MEAN SPEED	
	1	2	3	4	5	6	7	8	9	10	11			>11
NNE	0	1	10	20	13	8	4	6	2	2	0	1	67	4.82
NE	0	1	2	10	2	0	0	0	1	1	0	1	18	4.64
ENE	0	0	0	3	6	2	0	0	1	1	0	0	13	5.16
E	0	1	2	1	8	4	5	2	0	0	0	0	23	5.08
ESE	0	0	1	4	6	3	2	1	1	0	0	0	18	5.08
SE	0	2	0	3	6	4	4	5	0	1	2	6	33	8.09
SSE	0	2	1	2	1	2	0	0	0	0	1	9	18	13.77
S	0	1	1	0	0	1	0	0	0	0	0	4	7	15.34
SSW	0	1	0	0	1	0	0	1	0	0	0	2	5	9.92
SW	0	0	0	0	0	0	1	0	1	0	0	2	4	9.58
WSW	0	0	1	1	0	0	0	1	0	1	2	1	7	7.97
W	0	0	2	0	0	0	0	1	0	0	0	0	3	4.33
WNW	0	0	1	0	0	0	0	0	1	2	0	2	6	9.32
NW	0	2	1	4	0	0	0	0	1	0	1	7	16	10.04
NNW	0	1	2	6	5	1	4	2	0	0	0	4	25	6.30
N	0	2	4	13	10	11	6	1	2	1	1	7	58	6.21
VARIABLE													0	0.00
CALM													0	0.00
TOTAL	0	14	28	67	58	36	26	20	10	9	7	46	321	6.84

WIND FREQUENCY DISTRIBUTION  
 (FREQUENCY IN PERCENT OF TOTAL)

WIND DIRECTION	UPPER CLASS INTERVALS OF WIND SPEED (MPH)											TOTAL	MEAN SPEED	
	1	2	3	4	5	6	7	8	9	10	11			>11
NNE	0.00	0.05	0.46	0.91	0.59	0.37	0.18	0.27	0.09	0.09	0.00	0.05	3.06	4.82
NE	0.00	0.05	0.09	0.46	0.09	0.00	0.00	0.00	0.05	0.05	0.00	0.05	0.82	4.64
ENE	0.00	0.00	0.00	0.14	0.27	0.09	0.00	0.00	0.05	0.05	0.00	0.00	0.59	5.16
E	0.00	0.05	0.09	0.05	0.37	0.18	0.23	0.09	0.00	0.00	0.00	0.00	1.05	5.08
ESE	0.00	0.00	0.05	0.18	0.27	0.14	0.09	0.05	0.05	0.00	0.00	0.00	0.82	5.08
SE	0.00	0.09	0.00	0.14	0.27	0.18	0.18	0.23	0.00	0.05	0.09	0.27	1.51	8.09
SSE	0.00	0.09	0.05	0.09	0.05	0.09	0.00	0.00	0.00	0.00	0.05	0.41	0.82	13.77
S	0.00	0.05	0.05	0.00	0.00	0.05	0.00	0.00	0.00	0.00	0.00	0.18	0.32	15.34
SSW	0.00	0.05	0.00	0.00	0.05	0.00	0.00	0.05	0.00	0.00	0.00	0.09	0.23	9.92
SW	0.00	0.00	0.00	0.00	0.00	0.00	0.05	0.00	0.05	0.00	0.00	0.09	0.18	9.58
WSW	0.00	0.00	0.05	0.05	0.00	0.00	0.00	0.05	0.00	0.05	0.09	0.05	0.32	7.97
W	0.00	0.00	0.09	0.00	0.00	0.00	0.00	0.05	0.00	0.00	0.00	0.00	0.14	4.33
WNW	0.00	0.00	0.05	0.00	0.00	0.00	0.00	0.00	0.05	0.09	0.00	0.09	0.27	9.32
NW	0.00	0.09	0.05	0.18	0.00	0.00	0.00	0.00	0.05	0.00	0.05	0.32	0.73	10.04
NNW	0.00	0.05	0.09	0.27	0.23	0.05	0.18	0.09	0.00	0.00	0.00	0.18	1.14	6.30
N	0.00	0.09	0.18	0.59	0.46	0.50	0.27	0.05	0.09	0.05	0.05	0.32	2.65	6.21
VARIABLE													0.00	0.00
CALM													0.00	0.00
TOTAL	0.00	0.64	1.28	3.06	2.65	1.65	1.19	0.91	0.46	0.41	0.32	2.10	14.68	6.84

TOTAL NUMBER OF POSSIBLE OBSERVATIONS - 2208

TOTAL NUMBER OF OBSERVATIONS WITH VALID SPEED, DIRECTION AND STABILITY - 2187

TABLE 4A

SOUTHERN CALIFORNIA EDISON COMPANY  
 SAN ONOFRE NUCLEAR GENERATING STATION  
 4TH QUARTER, 1984  
 DAMES AND MOORE JOB NO. - 00377-084-09  
 DATA PERIOD- 10/01/84 TO 12/31/84  
 STABILITY CLASS #F# (10-40 METERS )  
 WINDS AT 10 METER LEVEL

28-JAN-85

WIND FREQUENCY DISTRIBUTION  
 (FREQUENCY IN NUMBER OF OCCURRENCES)

WIND DIRECTION	UPPER CLASS INTERVALS OF WIND SPEED (MPH)											TOTAL	MEAN SPEED	
	1	2	3	4	5	6	7	8	9	10	11			>11
NNE	0	1	13	35	55	50	34	14	7	1	0	0	210	5.18
NE	0	0	5	7	5	1	2	0	0	0	0	0	20	3.93
ENE	0	0	4	4	1	2	1	0	0	0	0	0	12	3.82
E	0	0	1	0	1	0	0	0	0	0	0	0	2	3.70
ESE	0	0	2	0	0	0	1	0	0	0	0	0	3	3.63
SE	0	0	0	0	0	0	0	0	0	0	0	0	0	0.00
SSE	0	0	0	0	0	0	0	0	0	0	0	0	0	0.00
S	0	0	0	0	0	0	0	0	0	0	0	0	0	0.00
SSW	0	0	0	0	0	0	0	0	0	0	0	0	0	0.00
SW	0	0	0	0	0	0	0	0	0	0	0	0	0	0.00
WSW	0	1	0	0	0	0	0	0	0	0	0	0	1	1.60
W	0	0	1	0	0	0	0	0	0	0	0	0	1	2.40
WNW	0	0	0	0	0	0	0	0	0	0	0	0	0	0.00
NW	0	0	1	0	0	0	0	0	0	0	0	0	1	2.70
NNW	0	0	0	0	1	2	1	0	0	0	0	0	4	5.50
N	0	0	3	3	13	9	6	9	4	0	0	0	47	5.66
VARIABLE													0	0.00
CALM													0	0.00
TOTAL	0	2	30	49	76	64	45	23	11	1	0	0	301	5.07

WIND FREQUENCY DISTRIBUTION  
 (FREQUENCY IN PERCENT OF TOTAL)

WIND DIRECTION	UPPER CLASS INTERVALS OF WIND SPEED (MPH)											TOTAL	MEAN SPEED	
	1	2	3	4	5	6	7	8	9	10	11			>11
NNE	0.00	0.05	0.59	1.60	2.51	2.29	1.55	0.64	0.32	0.05	0.00	0.00	9.60	5.18
NE	0.00	0.00	0.23	0.32	0.23	0.05	0.09	0.00	0.00	0.00	0.00	0.00	0.91	3.93
ENE	0.00	0.00	0.18	0.18	0.05	0.09	0.05	0.00	0.00	0.00	0.00	0.00	0.55	3.82
E	0.00	0.00	0.05	0.00	0.05	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.09	3.70
ESE	0.00	0.00	0.09	0.00	0.00	0.00	0.05	0.00	0.00	0.00	0.00	0.00	0.14	3.63
SE	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
SSE	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
S	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
SSW	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
SW	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
WSW	0.00	0.05	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.05	1.60
W	0.00	0.00	0.05	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.05	2.40
WNW	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
NW	0.00	0.00	0.05	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.05	2.70
NNW	0.00	0.00	0.00	0.00	0.05	0.09	0.05	0.00	0.00	0.00	0.00	0.00	0.18	5.50
N	0.00	0.00	0.14	0.14	0.59	0.41	0.27	0.41	0.18	0.00	0.00	0.00	2.15	5.66
VARIABLE													0.00	0.00
CALM													0.00	0.00
TOTAL	0.00	0.09	1.37	2.24	3.48	2.93	2.06	1.05	0.50	0.05	0.00	0.00	13.76	5.07

TOTAL NUMBER OF POSSIBLE OBSERVATIONS - 2208  
 TOTAL NUMBER OF OBSERVATIONS WITH VALID SPEED, DIRECTION AND STABILITY - 2187

TABLE 4A

SOUTHERN CALIFORNIA EDISON COMPANY  
 SAN ONOFRE NUCLEAR GENERATING STATION  
 4TH QUARTER, 1984  
 DAMES AND MOORE JOB NO - 00377-084-09  
 DATA PERIOD- 10/01/84 TO 12/31/84  
 STABILITY CLASS #GM (10-40 METERS )  
 WINDS AT 10 METER LEVEL

28-JAN-85

WIND FREQUENCY DISTRIBUTION  
 (FREQUENCY IN NUMBER OF OCCURRENCES)

WIND DIRECTION	UPPER CLASS INTERVALS OF WIND SPEED (MPH)											TOTAL	MEAN SPEED	
	1	2	3	4	5	6	7	8	9	10	11			>11
NNE	0	0	1	9	20	35	85	114	98	82	34	13	491	7.91
NE	0	0	1	0	2	0	0	2	0	0	0	0	5	5.40
ENE	0	0	0	1	0	0	0	0	0	0	0	0	1	3.90
E	0	0	0	0	0	0	0	0	0	0	0	0	0	0.00
ESE	0	0	1	0	0	0	0	0	0	0	0	0	1	2.70
SE	0	0	0	0	0	0	0	0	0	0	0	0	0	0.00
SSE	0	0	0	0	0	0	0	0	0	0	0	0	0	0.00
S	0	0	0	0	0	0	0	0	0	0	0	0	0	0.00
SSW	0	0	0	0	0	0	0	0	0	0	0	0	0	0.00
SW	0	0	0	0	0	0	0	0	0	0	0	0	0	0.00
WSW	0	0	0	0	0	0	0	0	0	0	0	0	0	0.00
W	0	0	0	0	0	0	0	0	0	0	0	0	0	0.00
WNN	0	0	0	0	0	0	0	0	0	0	0	0	0	0.00
NW	0	0	0	0	0	0	0	0	0	0	0	0	0	0.00
NNW	0	0	0	0	0	0	0	0	0	0	0	0	0	0.00
N	0	0	0	1	3	1	7	10	5	5	3	1	36	7.69
VARIABLE													0	0.00
CALM													0	0.00
TOTAL	0	0	3	11	25	36	92	126	103	87	37	14	534	7.95

WIND FREQUENCY DISTRIBUTION  
 (FREQUENCY IN PERCENT OF TOTAL)

WIND DIRECTION	UPPER CLASS INTERVALS OF WIND SPEED (MPH)											TOTAL	MEAN SPEED	
	1	2	3	4	5	6	7	8	9	10	11			>11
NNE	0.00	0.00	0.05	0.41	0.91	1.60	3.89	5.21	4.48	3.75	1.95	0.59	22.45	7.91
NE	0.00	0.00	0.05	0.00	0.09	0.00	0.00	0.09	0.00	0.00	0.00	0.00	0.23	5.40
ENE	0.00	0.00	0.00	0.05	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.05	3.90
E	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
ESE	0.00	0.00	0.05	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.05	2.70
SE	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
SSE	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
S	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
SSW	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
SW	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
WSW	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
W	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
WNN	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
NW	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
NNW	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
N	0.00	0.00	0.00	0.05	0.14	0.05	0.32	0.46	0.23	0.23	0.14	0.05	1.65	7.69
VARIABLE													0.00	0.00
CALM													0.00	0.00
TOTAL	0.00	0.00	0.14	0.50	1.14	1.65	4.21	5.76	4.71	3.98	1.69	0.64	24.42	7.95

TOTAL NUMBER OF POSSIBLE OBSERVATIONS - 2208  
 TOTAL NUMBER OF OBSERVATIONS WITH VALID SPEED, DIRECTION AND STABILITY - 2187

TABLE 4A

SOUTHERN CALIFORNIA EDISON COMPANY  
 SAN ONOFRE NUCLEAR GENERATING STATION  
 4TH QUARTER, 1984  
 DAMES AND MOORE JOB NO. - 00377-084-09  
 DATA PERIOD- 10/01/84 TO 12/31/84  
 STABILITY CLASS ALL (10-40 METERS )  
 WINDS AT 10 METER LEVEL

28-JAN-85

WIND FREQUENCY DISTRIBUTION  
 (FREQUENCY IN NUMBER OF OCCURRENCES)

WIND DIRECTION	UPPER CLASS INTERVALS OF WIND SPEED (MPH)												TOTAL	MEAN SPEED
	1	2	3	4	5	6	7	8	9	10	11	>11		
NNE	0.	2	27	66	91	101	124	134	108	88	36	15	792	6.88
NE	0	2	9	18	9	1	2	4	1	1	1	3	51	4.86
ENE	0	0	4	8	8	4	1	0	1	1	0	0	27	4.51
E	0.	1	4	1	12	8	6	2	0	0	0	0	34	4.99
ESE	0	0	5	6	8	6	9	7	2	1	2	3	49	6.47
SE	0	2	2	11	12	22	14	20	17	20	8	25	153	8.31
SSE	0	2	5	11	11	6	9	16	6	11	5	40	122	10.49
S	0	1	8	11	10	13	9	7	9	6	5	17	96	7.97
SSW	0	2	8	16	13	13	12	11	8	6	3	12	104	6.77
SW	0	2	8	17	25	12	14	14	10	3	5	6	116	6.14
WSW	0	1	12	24	36	25	29	18	1	3	6	2	157	5.54
W	0	0	9	17	23	36	24	17	2	2	2	2	134	5.63
WNW	0	1	6	6	10	8	6	8	7	8	8	7	75	7.12
NW	0	5	5	7	9	7	5	6	4	1	5	9	63	7.07
NNW	0	2	7	11	10	3	8	2	0	2	0	11	56	7.05
N	0	3	14	23	28	23	20	20	12	6	4	12	165	6.29
VARIABLE													0	0.00
CALM													0	0.00
TOTAL	0	26	133	293	315	288	292	286	188	159	90	164	2194	6.87

WIND FREQUENCY DISTRIBUTION  
 (FREQUENCY IN PERCENT OF TOTAL)

WIND DIRECTION	UPPER CLASS INTERVALS OF WIND SPEED (MPH)												TOTAL	MEAN SPEED
	1	2	3	4	5	6	7	8	9	10	11	>11		
NNE	0.00	0.09	1.23	3.01	4.15	4.60	5.65	6.11	4.92	4.01	1.64	0.68	36.10	6.88
NE	0.00	0.09	0.41	0.82	0.41	0.05	0.09	0.18	0.05	0.05	0.05	0.14	2.32	4.86
ENE	0.00	0.00	0.18	0.36	0.36	0.18	0.05	0.00	0.05	0.05	0.00	0.00	1.23	4.51
E	0.00	0.05	0.18	0.05	0.55	0.36	0.27	0.09	0.00	0.00	0.00	0.00	1.55	4.99
ESE	0.00	0.00	0.23	0.27	0.36	0.27	0.41	0.32	0.09	0.05	0.09	0.14	2.23	6.47
SE	0.00	0.09	0.09	0.50	0.55	1.00	0.64	0.91	0.77	0.91	0.36	1.14	6.97	8.31
SSE	0.00	0.09	0.23	0.50	0.50	0.27	0.41	0.73	0.27	0.50	0.23	1.82	5.56	10.49
S	0.00	0.05	0.36	0.50	0.46	0.59	0.41	0.32	0.41	0.27	0.23	0.77	4.38	7.97
SSW	0.00	0.09	0.36	0.73	0.59	0.59	0.55	0.50	0.36	0.27	0.14	0.55	4.74	6.77
SW	0.00	0.09	0.36	0.77	1.14	0.55	0.64	0.64	0.46	0.14	0.23	0.27	5.29	6.14
WSW	0.00	0.05	0.55	1.09	1.64	1.14	1.32	0.82	0.05	0.14	0.27	0.09	7.16	5.54
W	0.00	0.00	0.41	0.77	1.05	1.64	1.09	0.77	0.09	0.09	0.09	0.09	6.11	5.63
WNW	0.00	0.05	0.27	0.27	0.46	0.36	0.27	0.36	0.32	0.36	0.36	0.32	3.42	7.12
NW	0.00	0.23	0.23	0.32	0.41	0.32	0.23	0.27	0.18	0.05	0.23	0.41	2.87	7.07
NNW	0.00	0.09	0.32	0.50	0.46	0.14	0.36	0.09	0.00	0.09	0.00	0.50	2.55	7.05
N	0.00	0.14	0.64	1.05	1.28	1.05	0.91	0.91	0.55	0.27	0.18	0.55	7.52	6.29
VARIABLE													0.00	0.00
CALM													0.00	0.00
TOTAL	0.00	1.19	6.06	11.53	14.36	13.13	13.31	13.04	8.57	7.25	4.10	7.47	100.00	6.87

TOTAL NUMBER OF POSSIBLE OBSERVATIONS - 2208  
 TOTAL NUMBER OF OBSERVATIONS WITH VALID SPEED, DIRECTION AND STABILITY - 2187

## SECTION I

### 10 CFR 50 APPENDIX I AND 40 CFR 190 CONSIDERATIONS

The table in Section I presents the quarterly maximum dose to an individual. Six different categories are presented: (1) Liquid Effluents - Whole Body, (2) Liquid Effluent - Organ, (3) Airborne Effluents - Iodines and Particulates, (4) Noble Gases - Gamma, (5) Noble Gases - Beta, and (6) Direct Radiation.

The doses for categories 1 and 2 were calculated using the methodology of the ODCM, this data is also presented in Table 2D for the third and fourth quarters. Categories 3, 4, and 5 were calculated utilizing RRRGS (Radioactive Release Report Generating System) software, Reg. Guide 1.109 methodology, and concurrent meteorology. Table 1E lists data similar to categories 3, 4, and 5 covering the third and fourth quarter using methods described in the ODCM and the historical meteorology (X/Q). Category 6 presents direct dose data measured by TLD dosimeters. Each portion of each category is footnoted to briefly describe each maximum individual dose presented.



## SECTION I

10 CFR 50 APPENDIX C AND 40 CFR 190 CONSIDERATIONS (Continued)

SOURCE	Dose* (millirems)				
	1st Q	2nd Q	3rd Q	4th Q	YEAR
Liquid Effluents					
WHOLE BODY	1) 1.01E-1	2) 7.81E-2	3) 1.88E-1	4) 1.24E-1	5) 4.91E-1
ORGAN	6) 2.05E+0	7) 8.40E-1	8) 2.61E+0	9) 4.38E+0	10) 9.88E+0
Airborne Effluents					
IODINES and PARTICULATES	11) 3.24E-2	12) 5.64E-2	13) 6.31E-2	14) 4.21E-2	15) 1.94E-1
Noble Gases**					
GAMMA	16) 1.03E-1	17) 5.48E-1	18) 3.08E-1	19) 1.81E-1	20) 9.73E-1
BETA	21) 3.08E-1	22) 1.54E+0	23) 7.70E-1	24) 4.02E-1	25) 2.63E+0
Direct Radiation	26) 2.02E-1	27) 1.64E-1	28) 2.23E-1	29) 1.67E-1	30) 7.56E-1

\* - The numbered footnotes below briefly explain how each maximum dose was calculated, including the organ and the predominant pathway(s).

\*\* - Noble gas doses due to airborne effluents are in units of mrad reflecting the air dose.

1. This data was calculated using the methodology of the ODCM.
2. This data was calculated using the methodology of the ODCM.
3. This data was calculated using the methodology of the ODCM.
4. This data was calculated using the methodology of the ODCM.

SECTION I

10 CFR 50 APPENDIX I AND 40 CFR 190 CONSIDERATIONS (Continued)

5. This data was calculated using the methodology of the ODCM.
6. This data was calculated using the methodology of the ODCM; the GI-LLI received the maximum dose primarily by the saltwater fish pathway.
7. This data was calculated using the methodology of the ODCM; the GI-LLI received the maximum dose primarily by the saltwater fish pathway.
8. This data was calculated using the methodology of the ODCM; the GI-LLI received the maximum dose primarily by the saltwater fish pathway.
9. This data was calculated using the methodology of the ODCM; the GI-LLI received the maximum dose primarily by the saltwater fish pathway.
10. This data was calculated using the methodology of the ODCM; the GI-LLI received the maximum dose primarily by the saltwater fish pathway.
11. The maximum organ dose was to a child's thyroid and was located in the NNW sector. This was calculated using the activity reported in the January - June 1984 Semiannual Report with the assumptions of USNRC Regulatory Guide 1.109.
12. The maximum organ dose was to a child's thyroid and was located in the NNW sector. This was calculated using the activity reported in the January - June 1984 Semiannual Report with the assumptions of USNRC Regulatory Guide 1.109.
13. The maximum organ dose was to a child's thyroid and was located in the NNW sector. This was calculated using the reported activity with the assumptions of the USNRC Regulatory Guide 1.109.
14. The maximum organ dose was to a child's thyroid and was located in the NNW sector. This was calculated using the reported activity with the assumptions of the USNRC Regulatory Guide 1.109.
15. The maximum organ dose was to a child's thyroid and was located in the NNW sector. This was calculated using the reported activity and the activity reported in the January - June 1984 Semiannual Report with the assumptions of USNRC Regulatory Guide 1.109.
16. A maximum air dose of  $2.79E-1$  mrad for gamma radiation was located in the SSW sector, a seaward direction. The reported maximum air dose for gamma radiation was located in the ENE sector, a landward sector, at the exclusion area boundary and calculated with the assumptions of USNRC Regulatory Guide 1.109.
17. The maximum air dose for gamma radiation was located in the E sector at the exclusion area boundary and calculated with the assumptions of USNRC Regulatory Guide 1.109.

SECTION I

10 CFR 50 APPENDIX I AND 40 CFR 190 CONSIDERATIONS (Continued)

18. The maximum air dose for gamma radiation was located in the NNW sector at the exclusion area boundary and calculated with the assumptions of USNRC Regulatory Guide 1.109.
19. A maximum air dose of  $1.32E+0$  mrad for gamma radiation was located in the SSW sector, a seaward direction. The reported maximum air dose for gamma radiation was located at both the ENE and NW sectors, landward sectors, at the exclusion area boundary and calculated with the assumptions of USNRC Regulatory Guide 1.109.
20. A maximum air dose of  $2.18E+0$  mrad for gamma radiation was located in the SSW sector, a seaward direction. The reported maximum air dose for gamma radiation was located in the E sector, a landward sector, at the exclusion area boundary and calculated with the assumptions of USNRC Regulatory Guide 1.109.
21. A maximum air dose of  $8.33E-1$  mrad for beta radiation was located in the SSW sector a seaward direction. The reported maximum air dose for beta radiation was located in the ENE sector, a landward sector, at the exclusion area boundary and calculated with the assumptions of the USNRC Regulatory Guide 1.109.
22. The maximum air dose for beta radiation was located in the E sector at the exclusion area boundary and calculated with the assumptions of the USNRC Regulatory Guide 1.109.
23. The maximum air dose for beta radiation was located in the NNW sector at the exclusion area boundary and calculated with the assumptions of USNRC Regulatory Guide 1.109.
24. A maximum air dose of  $2.33E+0$  mrad for beta radiation was located in the SSW sector, a seaward direction. The reported maximum dose for beta radiation was located in the ENE sector, a landward sector, at the exclusion area boundary and calculated with the assumptions of USNRC Regulatory Guide 1.109.
25. A maximum air dose of  $4.72E+0$  mrad for beta radiation was located in the SSW sector, a seaward direction. The reported maximum dose for beta radiation was located in the E sector, a landward sector, at the exclusion area boundary and calculated with the assumptions of USNRC Regulatory Guide 1.109.
26. Measurements were made using TLD dosimeters; values were prorated to 300 hours per year; highest dose was measured at the San Onofre State Beach (Unit 1 North location).
27. Measurements were made using TLD dosimeters; values were prorated to 300 hours per year; highest dose was measured at the San Onofre State Beach (Unit 1 North location).

SECTION I

10 CFR 50 APPENDIX I AND 40 CFR 190 CONSIDERATIONS (Continued)

28. Measurements were made using TLD dosimeters; values were prorated to 300 hours per year; highest dose was measured at the San Onofre State Beach (Unit 1 North Location).
29. Measurements were made using TLD dosimeters; values were prorated to 300 hours per year; highest dose was measured at the San Onofre State Beach (Unit 1 North and South locations).
30. Measurements were made using TLD dosimeters; values were prorated to 300 hours per year; highest dose was measured at the San Onofre State Beach (Unit 1 North Location).

SECTION J

10 CFR 50 APPENDIX I AND 40 CFR 190  
PERCENT TECHNICAL SPECIFICATION LIMITS

The table in Section J corresponds to the table in Section I. Each dose presented in Section I is related to the percent of Technical Specification Limits and this value listed in Section J.



10 CFR 50 APPENDIX I AND 40 CFR 190  
PERCENT TECHNICAL SPECIFICATION LIMITS

SOURCE	% TSL				
	1st Q	2nd Q	3rd Q	4th Q	YEAR
Liquid Effluents					
WHOLE BODY	3.40E+0	2.60E+0	6.27E+0	4.13E+0	8.18E+0
ORGAN	2.05E+1	8.40E+0	2.61E+1	4.38E+1	4.94E+1
Airborne Effluents					
IODINES and PARTICULATES	2.16E-1	3.76E-1	4.21E-1	2.81E-1	6.47E-1
Noble Gases					
GAMMA	1.03E+0	5.48E+0	3.08E+0	1.81E+0	4.87E+0
BETA	1.54E+0	7.70E+0	3.85E+0	2.01E+0	6.58E+0
Direct Radiation	*	*	*	*	3.02E+0

\* These sections were left intentionally blank since the 40 CFR 190 limit is based on a "per year" basis only.

SECTION K. MISCELLANEOUS

I. UNPLANNED RELEASES

On September 24, 1984, an unplanned but monitored gaseous release occurred via the Plant Vent Stack. A total of 117.5 curies of Xe-133 equivalent was released when a leak occurred in a portica of the south gas stripper. This release was reported via telephone to the NRC as per reporting requirement 50.72, and is fully described by Unit 2's LER # 84-054.

On October 2, 1984, an unplanned but monitored gaseous release occurred via the Plant Vent Stack. A total of 97.5 curies of Xe-133 equivalent was released due to the lifting of a pressurizer release valve for approximately one minute. This release was reported via telephone to the NRC as per reporting requirement 50.72, and is fully described by Unit 2's LER # 84-058.

UNIT 2 AND 3 EFFLUENT RADIATION MONITORS OUT OF SERVICE FOR GREATER THAN 30 DAYS

MONITOR	INOPERABILITY DATE	INOPERABILITY CAUSE	EXPLANATION
2-7818 A -7818 B	06/27 - 08/15 06/06 - 08/15	INSTRUMENT FAILURE; WATER DAMAGE TO DETECTOR, GAS METER, PHOTOELECTRIC	REWORK/RECAL. INVESTIGATE HIGH READINGS. REBUILT A & B DETECTORS. PERFORMED ISOTOPIC CALIBRATION
3-7818 A	05/11 - 06/30	INSTRUMENT FAILURE; WATER DAMAGE TO DETECTOR.	REBUILT DETECTOR. REPLACED MYLAR ON "B" CHANNEL. PERFORMED ISOTOPIC ON A & B CHANNELS, ALONG WITH 92 DAY SURVEILLANCE. INCORPORATING DCPs 911.ON, 911.4N AND 1259N.
3-6753	05/30 - 07/03	INCORPORATE DCP 1370 S/J	DESIGN CHANGE PACKAGE TURNOVER PROCESSING. 18-MONTH CAL. AND 92 DAY SURVEILLANCE.
3-6759	05/24 - 07/03	INCORPORATE DCP 1370 S/J	DESIGN CHANGE PACKAGE TURNOVER PROCESSING.
2/3-7814 A -7814 B	11/18	HELD OUT OF SERVICE. WAITING ON DCPs 1385.ON AND 911.ON	HELD OUT OF SERVICE FOR DEVELOPMENT OF DCP TO PREVENT MONITOR OVERPRESSURIZATION, WHICH HAS CAUSED REPEATED DAMAGE.
2-7865	11/09	PERFORM 18-MONTH CAL. REPLACE FLOW PUMP. INCORPORATE DCP 6160.OJ AND 6087.OSJ	18-MONTH CAL ON HOLD AWAITING BACKORDERED PARTS.
2-7870	10/23	18-MONTH CAL. AND INCORPORATION OF DCP 233J	18-MONTH CAL. & DESIGN CHANGE PACKAGE TURNOVER PROCESSING.
2-7818 A -7818 B	10/22	INCORPORATING DCPs 911.ON, 911.4N AND 1259N	ROUTINE 18-MONTH AND 92 DAY SURVEILLANCES; DESIGN CHANGE TURNOVER PROCESSING.
2-7807	11/15	INCORPORATE DCPs 911.ON, 1116.OE, 1276N, 1259N. 18-MONTH CAL.	18-MONTH CAL. & DESIGN CHANGE TURNOVER PROCESSING.
2-7821	10/30	INCORPORATE DCP 1276.ON. 18-MONTH	18-MONTH CAL. & DESIGN CHANGE PACKAGE TURNOVER PROCESSING.
3-7870	09/18 - 11/06	SUBSTITUTE VALUE FOR PROCESS FLOW INSTALLED.	PROCESS FLOW VALUE INSERTED IN MONITOR TO COMPENSATE FOR LOW STACK FLOW RATE THEREBY RENDERING THE PROCESS FLOW RATE MONITOR INOPERABLE FOR AN EXTENDED PERIOD OF TIME.

## SECTION L CONCLUSIONS

- o Radioactive releases totaled  $2.12E+4$  curies for gaseous effluents and  $2.18E+2$  curies for liquid effluents.
- o Gaseous releases were primarily noble gases and totaled  $1.94E+4$  curies of which 92% of the noble gases was Xe-133.
- o Liquid releases were primarily tritium and accounted for  $1.77E+2$  curies or 81% of the total releases.
- o There were 28 radwaste shipments for SONGS Unit 1 and 2/3 to Richland, Washington. There were 165 cubic meters of solid radwaste shipped from Units 2/3 containing 449 curies of radioactivity.
- o Meteorological conditions during the year were typical of the meteorology at SONGS 2/3. Meteorological dispersion was good 35% of the time, fair 38% of the time and poor 27% of the time.
- o Compliance with 40 CFR 190 dose limits have been demonstrated in Section I of this report and there are no other fuel cycle facilities within 8 kilometers.
- o The net result from the analysis of these effluent releases indicate the operation of SONGS 2/3 has met all the requirements of the Technical Specifications and other applicable regulatory requirements and therefore has not produced any detrimental effect on the environment.

*Southern California Edison Company*

SAN ONOFRE NUCLEAR GENERATING STATION

P.O. BOX 128

SAN CLEMENTE, CALIFORNIA 92672

February 28, 1985

J. G. HAYNES  
STATION MANAGER

SCE

TELEPHONE  
(714) 492-7700

RECEIVED  
NRC

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REGION V T&E

U.S. Nuclear Regulatory Commission  
Office of Inspection and Enforcement  
Region V  
1450 Maria Lane, Suite 210  
Walnut Creek, California 94596-5368

Attention: Mr. J. B. Martin, Regional Administrator

Dear Sir:

Subject: Docket Nos. 50-361 and 50-362  
Semiannual Radioactive Effluent Release Report  
San Onofre Nuclear Generating Station, Units 2 and 3

In accordance with Sections 6.9.1.8 and 6.9.1.9 of Appendix A to Technical Specifications for Facility Operating License Nos. NPF-10 and NPF-15 for San Onofre Nuclear Generating Station, Units 2 and 3, respectively, enclosed is the semiannual report of the radioactive content of effluents released to unrestricted areas and shipments of solid waste during the period July 1 to December 31, 1984.

This report has been prepared in the general format of NRC Regulatory Guide 1.21, sections pertinent to SONGS 2 and 3. Included in this report are quarterly effluent summaries, percent of Technical Specification Limits, estimated total percent error, lower limit of detection concentrations, 40 CFR 190 considerations, meteorological data and 50 mile radius population doses.

Please contact us if we can be of further assistance.

Sincerely,

*J. G. Haynes*

Enclosure

cc: F. R. Huey (USNRC Resident Inspector Units 1, 2 and 3)  
J. P. Stewart (USNRC Resident Inspector, Units 2 and 3)

U. S. Nuclear Regulatory Commission  
Document Control Desk

Institute of Nuclear Power Operations (INPO)

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