JERSEY CENTRAL POWER & LIGHT COMPANY

OYSTER CREEK NUCLEAR GENERATING STATION

EFFLUENT RELEASE REPORT

1981-1

TABLE OF CONTENTS

LIST OF TABLES AND FIGURES

LIST OF TABLES AND FIGURES (Cont'd)

I. INTRODUCTION

I. INTRODUCTION

This report is submitted in accordance with section 6.9.3 of the Technical Specifications - Appendix A of the Oyster Creek Unit No. 1 Provisional Operating License, DPR-16.

Section I provides a brief summary of the plant status from December 1, 1980 through June 30, 1981. Included during this seven month summary are dates of a reactor scram, controlled reactor shutdowns, reactor startups, and selected dates showing reactor power levels.

Section II follows the format of regulatory guide 1.21 and provides a summary of gaseous effluents, liquid effluents, solid waste offsite shipments, and meteorological data for the first and second quarter of 1981. The first quarter begins on January 1, 1981 and extends through March 31, 1981. The second quarter starts on April 1, 1981 and ends on June 30, 1981.

Section III provides a summary of the Oyster Creek Radiological Environmental Monitoring Program and its associated sampling data for the period of December 1, 1981 through May 31, 1981 as per the stipulations outlined in Section 6.9.3.3 of the Technical Specifications - Appendix A. This section displays the data in tabular form and includes a correlation of plant effluent releases to the environmental radiological data.

Plant Operations Summary

December 1, 1980	Operating at approximately 64% rated power
December 15, 1980	Operating at approximately 95% rated power
January 1, 1981	Operating at approximately 90% rated power
January 15, 1981	Operating at approximately 91% rated power
February 1, 1981	Operating at approximately 99% rated power
February 15, 1981	Operating at approximately 96% rated power
March 1, 1981	Operating at approximately 90% rated power
March 13, 1981	Reactor shutdown
March 15, 1981	Reactor shutdown - continued
March 16, 1981	Reactor startup
March 27, 1981	Reactor shutdown
March 31, 1981	Reactor startup
April 1, 1981	Operating at approximately 36% rated power
April 15, 1981	Operating at approximately 74% rated power
April 18, 1981	Reactor shutdown
May 1, 1981	Reactor shutdown - continued
May 15, 1981	Reactor shutdown - continued
May 29, 1981	Reactor startup
June 1, 1981	Operating at approximately 65% rated power
June 15, 1981	Operating at approximately 100% rated power
June 26, 1981	Reactor scram
June 30, 1981	Reactor startup

II. EFFLUENT AND WASTE DISPOSAL SUMMARY

EFFLUENT AND WASTE DISPOSAL SUMMARY

A. Gaseous Effluents

During the reporting period, January 1, 1981 through June 30, 1981 a total of 2.74 E 4 curies of fission and activation gases, 4.46 E-1 curies of non-particulate halogens with half-lives greater than eight days, 3.59 E-1 curies of particulate activity with half-lives greater than eight days, and 6.22 E-' curies of tritium were released. Totals include effluents released from both an elevated stack and a ground-level radwaste vent. The maximum hourly release rate of gross activity from the stack was 1.11 E 4 microcuries per second which occurred at approximately 0900 on March 20, 1981.

The airborne releases are summarized in Table 1.

B. Liquid Effluents

A total of 1.62 E 7 liters of water was processed through the radwaste system. Of this, 6.27 E 6 liters containing 2.04 E 1 curies of activity were released to the environment. The maximum concentration of gross radio-activity (beta-gamma) released to the unrestricted area (average over the period of release) was 7.21 E-8 microcuries per milliliter on January 28, 1981.

The liquid release data are summarized in Table 5.

C. Solid

During the reporting period, a total volume of 9.35 E 2 cubic meters of solid waste containing 2.57 E 2 curies of activity was shipped off site in 86 shipments. In addition, one shipment of irradiated material containing 3.95 E 4 curies of activity was made.

The solid waste shipment data are summarized in Table 7.

D. Meteorological Data

During the reporting period, onsite meteorological conditions were monitored and recorded. Joint frequency distribution of wind speed and direction per atmospheric stability class per quarter is summarized. Included is 116 meter and 10 meter data.

The meteorological data are summarized in Table 8.

EFFLUENT AND WASTE DISPOSAL SEMI-ANNUAL REPORT

SUPPLEMENTAL INFORMATION

FACILITY - Oyster Creek Nuclear Generating Station

LICENSEE - Jersey Central Power & Light Company

1. Regulatory Limits

   a. Fission and Activation Gases:
   Technical Specification 3.6.A.1

   $$Q = \frac{0.21}{\bar{E}} \text{ Ci/sec}$$

   b. Iodines, half-lives > 8 days:
   Technical Specification 3.6.A.2

   4 uCi/sec

   c. Particulates, half-lives > 8 days:
   Technical Specification 3.6.A.2

   4 uCi/sec

   d. Liquid Effluents:
   Technical Specification 3.6.B.1
   Maximum permissible concentrations,
   Appendix B, Table II, Column 2,
   of 10 CFR 20 and notes 1 through 5 thereto.

2. Maximum Permissible Concentrations

   a. Fission and Activation Gases:

      1. First Quarter - 3.39 E-3 uCi/cc

      2. Second Quarter - 3.44 E-3 uCi/cc

   b. Iodines:

      5.20 E-8 uCi/cc

   c. Particulates:

      5.20 E-8 uCi/cc

   d. Liquid Effluents:

      From Appendix B, Table II, Column 2, of
      10 CFR 20 and notes 1 through 5 thereto.

(NOTE: MPC's for isotopes detected listed below)
Unit - uCi/ml

H-3	3 E-3	Xe-133	3 E-6
Cr-51	2 E-3	Xe-133m	3 E-6
Mn-54	1 E-4	Cs-134	9 E-6
Co-57	5 E-4	I-135	4 E-6
Co-58	1 E-4	Xe-135	3 E-6
Co-60	5 E-5	Cs-137	2 E-5
Sr-89	3 E-6	Ba-140	3 E-5
Sr-90	3 E-7	La-140	2 E-5
Sr-91	7 E-5	Ce-141	9 E-5
Tc-99m	6 E-3	Ce-143	4 E-5
Ru-103	8 E-5	Ce-144	1 E-5
Sb-125	1 E-4	Pa-233	1 E-4
I-131	3 E-7	Np-239	1 E-6
I-133	1 E-6		

3. Average Energy

   a. First Quarter - 8.04 E-1 mev

   b. Second Quarter - 7.94 E-1 mev

4. Measurements and Approximation of Total Radioactivity

   a. Fission and Activation Gases:
   The incorporation of a weekly grab sample analysis using gamma ray spectrometry with a GeLi Detector, a conversion factor and the continuous recording of the stack effluent on a continuous activity monitor.

   b. Iodines:
   Semi-weekly sample analysis - gamma ray spectrometry with a GeLi Detector, low background beta counter, internal proportional beta counter, and a single channel gamma counter.

   c. Particulates:
   Semi-weekly sample analysis - gamma ray spectrometry with a GeLi Detector, low background beta counter, internal proportional beta counter, and single channel gamma counter.

   d. Liquid Effluents:
   Analysis per batch release - gamma ray spectrometry with a GeLi Detector, a low background beta counter, and a liquid scintillation counter.

5. Batch Releases

a. Liquid

1. Number of batch releases:

a. First Quarter - 88 releases
b. Second Quarter - 44 releases

2. Total time period for batch releases:

a. First Quarter - 1.47 E4 minutes
b. Second Quarter - 8.21 E3 minutes

3. Maximum time period for a batch release:

a. First Quarter - 1.23 E3 minutes
b. Second Quarter - 5.05 E2 minutes

4. Average time period for a batch release:

a. First Quarter - 1.67 E2 minutes
b. Second Quarter - 1.87 E2 minutes

5. Minimum time period for a batch release:

a. First Quarter - 1.00 minutes
b. Second Quarter - 6.00 E1 minutes

6. Average stream flow during periods of release of effluent in a flowing stream:

a. First Quarter - 3.57 E6 liters/minute
b. Second Quarter - 2.94 E6 liters/minute

b. Gaseous

Not applicable (batch releases)

6. Abnormal Releases

a. Liquid

1. Number of releases:
One

2. Total activity released:
1.67 E-3 Ci as documented in RO 50-219/81-16/3L, dated May 21, 1981

b. Gaseous

1. Number of releases:
None

2. Total activity released:
Not applicable

TABLE 1
EFFLUENT AND WASTE DISPOSAL SEMIANNUAL REPORT 1981-1
GASEOUS EFFLUENTS-SUMMATION OF ALL RELEASES

	Unit	First Quarter	Second Quarter	Est. Total Error %
A. Fission & activation gases				
1. Total release	Ci	1.39 E 4	1.35 E 4	3.0 E 1
2. Average release rate for period	µCi/sec	1.83 E 3	3.35 E 3	
3. Percent of Tech Spec limit	%	6.98 E-1	1.26	
B. Iodines				
1. Total iodine-131	Ci	1.79 E-1	2.67 E-1	2.5 E 1
2. Average release rate for period	µCi/sec	2.30 E-2	3.40 E-2	
3. Percent of Tech Spec limit	%	5.75 E-1	8.50 E-1	
C. Particulates				
1. Particulates with half-lives >8 days	Ci	2.07 E-1	1.52 E-1	2.5 E 1
2. Average release rate for period	µCi/sec	2.66 E-2	1.94 E-2	
3. Percent of Tech Spec limit	%	6.65 E-1	4.85 E-1	
4. Gross alpha radioactivity	Ci	6.05 E-6	6.19 E-6	
D. Tritium				
1. Total release	Ci	4.65 E-1	1.57 E-1	4.0 E 1
2. Average release rate for period	µCi/sec	5.98 E-2	2.00 E-2	

TABLE 2
EFFLUENT AND WASTE DISPOSAL SEMIANNUAL REPORT
GASEOUS EFFLUENTS-ELEVATED RELEASE

CONTINUOUS MODE

Nuclides Released	Unit	First Quarter	Second Quarter		MDL
1. Fission gases					
krypton-85m	Ci	3.89 E 2	5.19 E 2		8.92 E-11
krypton-87	Ci	1.50 E 3	1.87 E 3		1.55 E-10
krypton-88	Ci	1.24 E 3	1.37 E 3		2.09 E-10
xenon-133	Ci	2.02 E 2	3.00 E 2		7.31 E-11
xenon-135	Ci	2.33 E 3	3.22 E 3		5.31 E-11
xenon-135m	Ci	1.00 E 3	1.27 E 3		1.26 E-10
xenon-138	Ci	4.59 E 3	4.21 E 3		2.44 E-10
others					
krypton-89	Ci	MDL	1.67 E-1		1.14 E-9
xenon-133m	Ci	3.32 E 1	MDL		5.96 E-10
xenon-137	Ci	1.43 E 3	3.88		7.87 E-10
Total for period	Ci	1.27 E 4	1.28 E 4		
2. Iodines					
Iodine-131	Ci	1.68 E 5	2.59 E 5		1.61 E-4
Iodine-133	Ci	7.71 E 5	9.36 E 5		1.23 E-4
Iodine-135	Ci	1.15 E 6	1.17 E 6		7.31 E-4
Total for period	Ci	2.09 E 6	2.37 E 6		

TABLE 3
EFFLUENT AND WASTE DISPOSAL SEMIANNUAL REPORT
GASEOUS EFFLUENTS-ELEVATED RELEASE

CONTINUOUS MODE

Nuclides Released	Unit	First Quarter	Second Quarter		MDL
Strontium - 89	Ci	4.36 E-2	3.21 E-2		1.95 E-9
Strontium - 90	Ci	1.94 E-3	2.66 E-3		2.38 E-10
Cesium - 137	Ci	1.28 E-3	9.78 E-4		8.12 E-11
Barium - 140	Ci	1.35 E-1	1.05 E-1		3.03 E-10
Lanthanum - 140	Ci	1.11 E-1	7.65 E-2		1.43 E-10
Others					
Chromium - 51	Ci	2.22 E-3	6.71 E-4		3.97 E-10
Manganese - 54	Ci	3.87 E-3	6.02 E-3		1.59 E-10
Cobalt - 58	Ci	7.76 E-4	1.90 E-4		1.81 E-10
Cobalt - 60	Ci	1.04 E-3	7.66 E-4		1.29 E-10
Strontium - 91	Ci	5.94 E-1	4.87 E-3		3.41 E-10
Niobium - 95	Ci	4.96 E-3	MDL		1.50 E-10
Molybdenum - 99	Ci	1.13 E-2	MDL		5.04 E-10
Technetium - 99m	Ci	2.79 E-1	3.35 E-3		4.69 E-11
Iodine - 131	Ci	1.12 E-2	1.54 E-3		1.23 E-10
Iodine - 133	Ci	1.07 E-1	1.54 E-2		7.61 E-11
Iodine - 135	Ci	2.03 E-1	2.25 E-2		5.30 E-10
Cerium - 141	Ci	4.07 E-4	1.22 E-4		2.16 E-9
Cerium - 143	Ci	1.38 E-3	MDL		7.23 E-11
Cerium - 144	Ci	9.92 E-4	5.29 E-4		2.27 E-10
Protactinium - 233	Ci	9.89 E-5	MDL		9.30 E-11
Neptunium - 239	Ci	2.62 E-3	9.33 E-3		1.28 E-10
Total	Ci	1.52	7.65 E-3		

TABLE 4
EFFLUENT AND WASTE DISPOSAL SEMIANNUAL REPORT 1981-1
GASEOUS EFFLUENTS-GROUND LEVEL RELEASES

Nuclides Released	Unit	First Quarter	Second Quarter		MDL
1. Fission Gases					
Total for Period	Ci	1.24 E 3	6.57 E 2		
2. Iodines					
I-131	Ci	1.05 E-2	8.37 E-3		5.85 E-11
I-133	Ci	1.69 E-2	1.83 E-2		1.23 E-10
I-135	Ci	5.00 E-3	1.93 E-2		1.27 E-9
Total for Period	Ci	3.24 E-2	4.60 E-2		
3. Particulates					
Cr-51	Ci	3.67 E-4	4.87 E-5		4.83 E-10
Mn-54	Ci	3.02 E-5	9.75 E-5		2.08 E-10
Co-57	Ci	2.06 E-4	2.38 E-4		1.88 E-11
Co-58	Ci	< MDL	4.32 E-5		2.10 E-10
Co-60	Ci	1.53 E-4	6.23 E-4		2.08 E-10
Sr-89	Ci	< MDL	< MDL		1.10 E-10
Sr-90	Ci	< MDL	< MDL		7.15 E-12
Tc-99m	Ci	2.62 E-4	8.93 E-5		6.72 E-10
Cs-137	Ci	2.90 E-5	4.75 E-5		1.10 E-10
Ce-141	Ci	< MDL	2.44 E-5		8.72 E-11
Ce-143	Ci	< MDL	1.75 E-5		1.11 E-10
Ba-140	Ci	< MDL	2.11 E-6		4.66 E-10
Np-239	Ci	8.51 E-4	3.47 E-6		7.20 E-11
Total for Period	Ci	2.29 E-4	1.24 E-3		

TABLE 5
EFFLUENT AND WASTE DISPOSAL SEMIANNUAL REPORT 1981-1
LIQUID EFFLUENTS-SUMMATION OF ALL RELEASES

	Unit	First Quarter	Second Quarter	Est. Total Error %
A. Fission and activation products				
1. Total releases (not including tritium, gases, alpha)	Ci	8.80 E-2	1.14 E-1	3.0 E 1
2. Average diluted concentration during period	µCi/ml	7.30 E-10	1.22 E-9	
3. Percent of applicable limit	%	1.83 E-2	1.69 E-2	
B. Tritium				
1. Total release	Ci	1.37 E 1	6.19	3.0 E 1
2. Average diluted concentration during period	µCi/ml	1.14 E-7	6.63 E-8	
3. Percent of applicable limit	%	3.79 E-3	2.21 E-3	
C. Dissolved and entrained gases				
1. Total release	Ci	2.75 E-1	5.13 E-2	3.0 E 1
2. Average diluted concentration during period	µCi/ml	2.28 E-9	5.50 E-10	
3. Percent of applicable limit	%	7.60 E-2	1.83 E-2	
D. Gross alpha radioactivity				
1. Total release	Ci	8.04 E-5	6.46 E-5	3.0 E 1
E. Volume of waste released (prior to dilution)	liters	3.58 E 6	2.69 E 6	1.0 E 1
F. Volume of dilution water used during period	liters	4.53 E 11	3.51 E 11	1.0 E 1

TABLE 6
EFFLUENT AND WASTE DISPOSAL REPORT 1981-1
LIQUID EFFLUENTS

	UNIT	FIRST QUARTER	SECOND QUARTER		MDL
Strontium-89	Ci	4.37 E-3	2.28 E-3		2.04 E-11
Strontium - 90	Ci	2.89 E-4	2.67 E-4		5.47 E-12
Iodine-131	Ci	2.83 E-3	3.84 E-4		3.68 E-10
Cesium-134	Ci	8.75 E-5	2.99 E-4		4.73 E-10
Cesium - 137	Ci	1.99 E-3	4.17 E-3		5.53 E-10
Cobalt-57	Ci	1.11 E-4	7.29 E-4		1.86 E-10
Cobalt-58	Ci	6.13 E-5	MDL		8.99 E-10
Cobalt-60	Ci	2.87 E-2	3.06 E-2		7.85 E-10
Manganese-54	Ci	2.47 E-3	3.44 E-3		7.68 E-10
Chromium-51	Ci	2.23 E-2	1.54 E-2		2.77 E-9
Strontium-91	Ci	1.48 E-4	6.66 E-4		1.74 E-9
Technetium-99m	Ci	3.62 E-3	3.38 E-3		2.95 E-10
Ruthenium-103	Ci	7.56 E-5	3.74 E-5		5.63 E-10
Antimony-125	Ci	1.85 E-4	1.63 E-4		1.64 E-9
Iodine-133	Ci	7.95 E-3	7.52 E-4		5.55 E-10
Iodine-135	Ci	4.43 E-3	4.72 E-2		1.75 E-9
Barium-140	Ci	2.43 E-3	2.27 E-4		2.38 E-9
Lanthanum-140	Ci	3.48 E-3	1.33 E-3		8.58 E-10
Cerium-141	Ci	2.53 E-4	3.02 E-4		4.97 E-10
Cerium-143	Ci	MDL	1.44 E-4		6.30 E-10
Cerium-144	Ci	1.85 E-3	2.41 E-3		2.38 E-9
Protactinium-233	Ci	4.04 E-5	MDL		8.07 E-10
Neptunium-239	Ci	3.13 E-4	1.30 E-4		4.58 E-10
Total	Ci	8.80 E-2	1.14 E-1		
Xenon-133	Ci	6.76 E-2	1.81 E-2		6.79 E-10
Xenon-133m	Ci	8.74 E-5	3.00 E-4		1.99 E-9
Xenon-135	Ci	2.07 E-1	3.29 E-2		2.81 E-10
Total	Ci	2.75 E-1	5.13 E-2		

TABLE 7
EFFLUENT AND WASTE DISPOSAL SEMIANNUAL REPORT 1981-1
SOLID WASTE AND IRRADIATED FUEL SHIPMENTS

A. Solid waste shipped offsite for burial or disposal (not irradiated fuel)

1. Type of waste	Unit	6-month period	Est. Total Error, %
a. Spent resins, filter sludges, evaporator bottoms, etc.	m^3	3.57 E 2	
	Ci	1.54 E 2	5.0 E 1
b. Dry compressible waste contaminated equip., etc.	m^3	5.78 E 2	
	Ci	1.03 E 2	5.0 E 1
c. Irradiated components, control rods, etc.	m^3		
	Ci	3.95 E 4	5.0 E 1
d. Other (describe	m^3		
	Ci		

2. Estimate of major nuclide composition (by type of waste)	Percentage	Activity (Ci)	MDL (Ci)
a. Co-60	5.4 E 1	8.32 E 1	4.12 E-10
Sr-89	1.3 E 1	2.00 E 1	5.00 E-11
Cs-137	8.2	1.26 E 1	2.29 E-10
Mn-54	7.9	1.22 E 1	4.12 E-10
La-140	4.3	6.62	4.32 E-10
b. Mn-54	3.4 E 1	3.50 E 1	
Co-60	2.8 E 1	2.88 E 1	
Cs-137	1.0 E 1	1.03 E 1	
Sr-89	7.2	7.42	
Co-58	5.5	5.67	
c.			
d.			

3. Solid Waste Disposition Number of Shipments	Mode of Transportation	Destination
78	Motor Vehicle	Barnwell, South Carolina
7	Motor Vehicle	Richmond, Washington
1	Motor Vehicle	Beatty, Nevada

B. Irradiated Fuel Shipments (Disposition)

Number of Shipments	Mode of Transportation	Destination
1	Motor Vehicle	Columbus, Ohio

TABLE 8
Meteorological Classification of Atmospheric Stability

Stability Classification	Pasquill Categories	Degrees	Temperature Change with height (°C/100m)
Extremely unstable	A	25.0°	LT -1.9
Moderately unstable	B	20.0°	-1.9 to -1.7
Slightly unstable	C	15.0°	-1.7 to -1.5
Neutral	D	10.0°	-1.5 to -0.5
Slightly Stable	E	5.0°	-0.5 to 1.5
Moderately stable	F	2.5°	1.5 to 4.0
Extremely stable	G	1.7°	GT 4.0

TABLE 9

Oyster Creek Joint Frequency Tables of Wind Speed and Direction 33ft versus Delta Temperature 150-33ft

01/01/81-03/31/81

HOURS AT EACH WIND SPEED AND DIRECTION

PERIOD OF RECORD= 81 1 1 1-81 32184

STABILITY CLASS: A

ELEVATION: SPEED:SPD33 DIRECTION:DIR33 LAPSE:DT150

WIND SPEED(MPH)

WIND DIRECTION	1-3	3-4	8-18	13-18	18-24	>24	TOTAL
N	0	4	6	0	0	0	10
NNE	0	8	15	1	0	0	24
NE	2	3	18	4	0	0	27
ENE	0	7	25	2	0	0	34
E	0	8	10	1	0	0	19
ESE	2	10	5	2	0	0	19
SE	1	9	10	0	0	0	20
SSE	3	3	7	3	0	0	16
S	2	6	15	7	1	0	34
SSW	0	2	13	10	0	2	27
SW	1	8	7	1	0	1	18
WSW	2	8	24	10	0	2	50
W	2	8	30	9	0	1	50
WNW	3	13	78	30	1	0	125
NW	3	11	51	41	3	0	115
NNW	0	10	15	0	0	0	30
VARIABLE	0	0	0	0	0	0	10

TOTAL 630
PERIODS OF CALM(HOURS): 0
HOURS OF MISSING DATA: 100

HOURS AT EACH WIND SPEED AND DIRECTION

PERIOD OF RECORD= 81 1 1 1-81 32184

STABILITY CLASS: B

ELEVATION: SPEED:SPD33 DIRECTION:DIR33 LAPSE:DT150

WIND SPEED(MPH)

WIND DIRECTION	1-3	3-4	8-18	13-18	18-24	>24	TOTAL
N	1	0	0	0	0	0	1
NNE	0	0	2	1	0	0	3
NE	0	0	5	0	0	0	5
ENE	0	1	5	1	0	0	7
E	0	1	1	0	0	0	2
ESE	0	1	1	0	0	0	2
SE	0	2	1	0	0	0	3
SSE	0	0	2	0	0	0	2
S	0	2	2	0	0	0	4
SSW	0	1	5	2	1	0	9
SW	1	0	3	0	0	0	4
WSW	0	1	0	1	0	0	2
W	0	0	4	0	0	0	4
WNW	3	2	2	2	0	0	9
NW	1	1	2	2	0	0	6
NNW	1	1	1	0	0	0	3
VARIABLE	1	0	0	0	0	0	1

TOTAL 58
PERIODS OF CALM(HOURS): 0
HOURS OF MISSING DATA: 100

HOURS AT EACH WIND SPEED AND DIRECTION

PERIOD OF RECORD= 81 1 1 1-81 23184

STABILITY CLASS: 6

ELEVATION: SPEED:SPD33 DIRECTION:DIR33 LAPSE:DT150

WIND SPEED(MPH)

WIND DIRECTION	1-3	3-4	8-12	12-18	18-24	>24	TOTAL
N	0	0	3	0	0	0	3
NNE	0	1	5	0	0	0	6
NE	0	3	1	0	0	0	4
ENE	0	0	0	1	0	0	1
E	1	0	0	0	0	0	1
ESE	1	0	1	0	0	0	2
SE	0	1	0	0	0	0	1
SSE	0	0	3	0	0	0	3
S	0	0	1	1	0	0	2
SSW	0	1	2	3	0	0	6
SW	0	0	0	0	0	0	0
WSW	0	0	1	0	0	0	1
W	0	1	4	3	0	0	8
WNW	0	1	1	4	0	0	6
NW	1	2	2	3	0	0	8
NNW	0	3	0	0	0	0	3
VARIABLE	2	0	0	0	0	0	2

TOTAL 58
PERIODS OF CALM(HOURS): 0
HOURS OF MISSING DATA: 168

HOURS AT EACH WIND SPEED AND DIRECTION

PERIOD OF RECORD= 81 1 1 1-81 23184

STABILITY CLASS: B

ELEVATION: SPEED:SPD33 DIRECTION:DIR33 LAPSE:DT150

WIND SPEED(MPH)

WIND DIRECTION	1-3	3-4	8-12	12-18	18-24	>24	TOTAL
N	3	6	2	0	0	0	11
NNE	1	5	2	1	0	0	9
NE	0	8	5	2	0	0	15
ENE	1	5	5	0	0	0	11
E	1	1	0	0	0	0	2
ESE	1	0	4	6	0	0	11
SE	1	5	4	5	0	0	15
SSE	0	6	4	8	4	0	22
S	2	9	6	7	12	3	39
SSW	1	6	24	8	3	0	40
SW	3	6	13	1	0	0	23
WSW	3	9	5	0	0	0	17
W	1	15	19	2	0	0	37
WNW	2	34	52	17	2	0	107
NW	3	29	56	19	0	0	107
NNW	4	10	14	3	0	0	31
VARIABLE	7	0	0	0	0	0	7

TOTAL 457
PERIODS OF CALM(HOURS): 0
HOURS OF MISSING DATA: 168

HOURS AT EACH WIND SPEED AND DIRECTION

PERIOD OF RECORD= 81 1 1 1-81 23184

STABILITY CLASS: E

ELEVATION: SPEED:SPD10 DIRECTION:DIR10 LAPSE:DT150

WIND SPEED(MPH)

WIND DIRECTION	1-3	3-4	8-12	13-18	19-24	>24	TOTAL
N	0	1	0	0	0	0	1
NNE	2	0	0	0	0	0	2
NE	0	2	0	0	0	0	2
ENE	0	0	0	0	0	0	0
E	0	2	0	0	0	0	2
ESE	0	1	0	0	0	0	1
SE	0	0	1	0	0	0	1
SSE	0	4	0	1	0	0	5
S	0	2	2	0	0	0	4
SSW	4	16	20	0	0	0	40
SW	2	28	10	0	0	0	40
WSW	4	20	11	0	0	1	36
W	2	34	18	0	0	0	54
WNW	4	64	14	0	0	0	82
NW	2	28	17	0	0	0	47
NNW	2	0	4	0	0	0	10
VARIABLE	2	0	0	0	0	0	2

TOTAL 256
PERIODS OF CALM(HOURS): 0
HOURS OF MISSING DATA: 100

HOURS AT EACH WIND SPEED AND DIRECTION

PERIOD OF RECORD= 81 1 1 1-81 23184

STABILITY CLASS: F

ELEVATION: SPEED:SPD10 DIRECTION:DIR10 LAPSE:DT150

WIND SPEED(MPH)

WIND DIRECTION	1-3	3-4	8-12	13-18	19-24	>24	TOTAL
N	3	1	0	0	0	0	4
NNE	2	0	0	0	0	0	2
NE	0	0	0	0	0	0	0
ENE	1	0	0	0	0	0	1
E	0	0	0	0	0	0	0
ESE	2	0	0	0	0	0	2
SE	0	1	0	0	0	0	1
SSE	1	0	0	0	0	0	1
S	2	2	0	0	0	0	4
SSW	5	5	0	0	0	0	10
SW	4	10	1	0	0	0	15
WSW	0	23	0	0	0	0	23
W	5	17	3	0	0	0	25
WNW	6	21	2	0	0	0	29
NW	4	15	2	0	0	0	21
NNW	2	10	0	0	0	0	13
VARIABLE	6	0	0	0	0	0	6

TOTAL 183
PERIODS OF CALM(HOURS): 0
HOURS OF MISSING DATA: 100

HOURS AT EACH WIND SPEED AND DIRECTION

PERIOD OF RECORD= 81 1 1 1-81 23184

STABILITY CLASS: G

ELEVATION: SPEED:SPD33 DIRECTION:DIR33 LAPSE:DT150

WIND SPEED(MPH)

WIND DIRECTION	1-2	3-4	8-12	13-18	19-24	>24	TOTAL
N	2	4	0	0	0	0	6
NNE	3	1	0	0	0	0	4
NE	1	0	0	0	0	0	1
ENE	2	0	0	0	0	0	2
E	1	0	0	0	0	0	1
ESE	4	0	0	0	0	0	4
SE	2	0	0	0	0	0	2
SSE	3	0	0	0	0	0	3
S	3	1	0	0	0	0	4
SSW	3	1	0	0	0	0	4
SW	16	13	0	0	0	0	29
WSW	34	90	0	0	0	0	84
W	81	84	0	0	0	0	46
WNW	18	9	0	0	0	0	27
NW	19	23	2	0	0	0	44
NNW	14	10	0	0	0	0	24
VARIABLE	12	0	0	0	0	0	12

TOTAL 324
PERIODS OF CALM(HOURS): 0
HOURS OF MISSING DATA: 100

HOURS AT EACH WIND SPEED AND DIRECTION

PERIOD OF RECORD= 81 1 1 1-81 23184

STABILITY CLASS: ALL

ELEVATION: SPEED:SPD33 DIRECTION:DIR33 LAPSE:DT150

WIND SPEED(MPH)

WIND DIRECTION	1-2	3-4	8-12	13-18	19-24	>24	TOTAL
N	8	18	11	0	0	0	36
NNE	8	15	24	3	0	0	50
NE	3	22	29	6	0	0	60
ENE	4	13	36	4	0	0	56
E	3	18	11	1	0	0	27
ESE	10	18	11	2	0	0	41
SE	4	10	22	3	0	0	40
SSE	7	13	16	12	4	0	52
S	10	24	30	15	13	3	95
SSW	13	32	73	31	4	2	145
SW	27	63	43	2	0	1	136
WSW	49	111	43	10	0	3	225
W	32	100	30	14	0	1	227
WNW	26	144	142	50	3	0	365
NW	34	102	130	66	3	0	340
NNW	20	55	34	2	0	0	122
VARIABLE	26	0	0	0	0	0	26

TOTAL 2060
PERIODS OF CALM(HOURS): 0
HOURS OF MISSING DATA: 100

TABLE 10
Oyster Creek Joint Frequency Tables of Wind Speed and Direction 33ft
versus Delta Temperature 150-33ft
04/01/81-06/30/81

HOURS AT EACH WIND SPEED AND DIRECTION

PERIOD OF RECORD= '1 4 1 1-81 63084

STABILITY CLASS: A

ELEVATION: SPEED:SP033 DIRECTION:DIR33 LAPSE:DT150

WIND SPEED(MPH)

WIND DIRECTION	1-3	3-4	8-12	13-18	19-24	>24	TOTAL
N	6	8	10	11	0	0	35
NNE	1	4	5	1	0	0	11
NE	1	6	20	0	0	0	27
ENE	1	3	23	10	0	0	47
E	1	5	20	2	0	0	28
ESE	0	0	30	8	0	0	49
SE	0	11	23	6.	0	0	48
SSE	1	3	22	17	1	0	44
S	0	5	26	38	2	0	71
SSW	1	4	17	16	2	0	39
SW	0	8	18	6	0	0	26
WSW	1	5	16	6	0	0	28
W	1	3	17	9	1	0	31
WNW	0	11	30	26	1	0	78
NW	0	4	30	15	1	0	60
NNW	1	4	12	6	0	0	23
VARIABLE	5	0	0	0	0	0	5

TOTAL 833
PERIODS OF CALM(HOURS): 0
HOURS OF MISSING DATA: 830

HOURS AT EACH WIND SPEED AND DIRECTION

PERIOD OF RECORD= 81 4 1 1-81 63084

STABILITY CLASS: B

ELEVATION: SPEED:SP033 DIRECTION:DIR33 LAPSE:DT150

WIND SPEED(MPH)

WIND DIRECTION	1-3	3-4	8-12	13-18	19-24	>24	TOTAL
N	0	1	0	0	0	0	1
NNE	0	1	2	0	0	0	3
NE	0	0	0	1	0	0	1
ENE	0	0	0	1	0	0	1
E	0	0	2	0	0	0	2
ESE	0	1	0	0	0	0	1
SE	0	0	2	0	0	0	2
SSE	0	0	3	0	0	0	3
S	1	1	0	4	0	0	6
SSW	0	0	5	2	0	0	7
SW	1	1	1	2	0	0	5
WSW	0	1	3	0	0	0	4
W	0	0	1	0	0	0	1
WNW	0	1	1	0	0	0	2
NW	0	1	1	0	0	0	2
NNW	0	0	0	0	0	0	0
VARIABLE	0	0	0	0	0	0	0

TOTAL 41
PERIODS OF CALM(HOURS): 0
HOURS OF MISSING DATA: 830

HOURS AT EACH WIND SPEED AND DIRECTION

PERIOD OF RECORD= 81 4 1 1-81 63024

STABILITY CLASS: 6

ELEVATION: SPEED:SPD33 DIRECTION:DIR33 LAPSE:DT150

WIND SPEED(MPH)

WIND DIRECTION	1-3	3-4	8-12	13-18	19-24	>24	TOTAL
N	1	0	0	0	0	0	1
NNE	0	0	0	0	0	0	0
NE	0	0	0	0	0	0	0
ENE	0	0	2	0	0	0	2
E	0	0	0	0	0	0	0
ESE	0	0	0	0	0	0	0
SE	0	0	0	0	0	0	0
SSE	0	0	4	1	0	0	5
S	0	0	3	1	1	4	5
SSW	0	1	2	1	2	0	6
SW	0	1	1	3	0	0	5
WSW	0	1	1	0	0	0	2
W	0	0	0	0	0	0	0
WNW	0	1	1	1	0	0	3
NW	0	0	1	0	0	0	1
NNW	0	0	1	0	0	0	1
VARIABLE	0	0	0	0	0	0	0

TOTAL 31
PERIODS OF CALM(HOURS): 0
HOURS OF MISSING DATA: 336

HOURS AT EACH WIND SPEED AND DIRECTION

PERIOD OF RECORD= 81 4 1 1-81 63024

STABILITY CLASS: B

ELEVATION: SPEED:SPD33 DIRECTION:DIR33 LAPSE:DT150

WIND SPEED(MPH)

WIND DIRECTION	1-3	3-4	8-12	13-18	19-24	>24	TOTAL
N	2	6	1	1	0	0	10
NNE	2	9	1	0	0	0	12
NE	2	12	9	0	0	0	23
ENE	0	2	7	6	1	0	22
E	0	0	11	3	0	0	23
ESE	0	2	8	0	0	0	17
SE	0	0	5	0	0	0	14
SSE	1	11	18	3	0	0	33
S	0	11	12	5	3	0	31
SSW	0	12	17	11	4	0	44
SW	2	10	17	2	0	0	32
WSW	2	0	14	1	0	0	23
W	1	10	4	2	0	0	17
WNW	1	7	10	1	4	0	19
NW	3	7	6	2	0	0	18
NNW	1	4	3	2	0	0	10
VARIABLE	0	0	0	0	0	0	0

TOTAL 348
PERIODS OF CALM(HOURS): 0
HOURS OF MISSING DATA: 336

HOURS AT EACH WIND SPEED AND DIRECTION

PERIOD OF RECORD= 81 4 1 1-81 63024

STABILITY CLASS: E

ELEVATION: SPEED:SP33 DIRECTION:DIR33 LAPSE:DT150

WIND SPEED(MPH)

WIND DIRECTION	1-2	3-4	8-12	13-18	19-24	>24	TOTAL
N	1	4	0	0	0	0	5
NNE	1	4	0	0	0	0	5
NE	2	10	4	0	0	0	16
ENE	0	6	4	1	0	0	11
E	2	10	8	0	0	0	20
ESE	4	7	3	0	0	0	14
SE	6	12	7	0	0	0	25
SSE	5	8	17	0	0	0	40
S	5	26	22	11	0	0	64
SSW	7	27	41	12	0	0	87
SW	8	20	26	0	0	0	54
WSW	3	17	14	0	0	0	34
W	6	8	11	1	0	0	26
WNW	1	24	20	2	0	0	56
NW	1	21	12	1	0	0	35
NNW	1	3	6	0	0	0	10
VARIABLE	3	0	0	0	0	0	3

TOTAL 504
PERIODS OF CALM(HOURS): 0
HOURS OF MISSING DATA: 220

HOURS AT EACH WIND SPEED AND DIRECTION

PERIOD OF RECORD= 81 4 1 1-81 63024

STABILITY CLASS: F

ELEVATION: SPEED:SP33 DIRECTION:DIR33 LAPSE:DT150

WIND SPEED(MPH)

WIND DIRECTION	1-2	3-4	8-12	13-18	19-24	>24	TOTAL
N	0	2	0	0	0	0	2
NNE	0	1	0	0	0	0	1
NE	1	0	0	0	0	0	1
ENE	1	0	0	0	0	0	1
E	2	0	0	0	0	0	2
ESE	0	0	0	0	0	0	0
SE	1	0	0	0	0	0	1
SSE	1	3	1	0	0	0	5
S	0	3	2	0	0	0	5
SSW	1	2	5	0	0	0	8
SW	0	20	9	0	0	0	29
WSW	2	10	4	0	0	0	16
W	2	26	3	0	0	0	31
WNW	1	9	0	0	0	0	10
NW	2	6	0	0	0	0	8
NNW	2	6	0	0	0	0	8
VARIABLE	2	0	0	0	0	0	2

TOTAL 127
PERIODS OF CALM(HOURS): 0
HOURS OF MISSING DATA: 220

HOURS AT EACH WIND SPEED AND DIRECTION

PERIOD OF RECORD= 81 4 1 1-81 83684

STABILITY CLASS: 6

ELEVATION: SPEED:SPD33 DIRECTION:DIR33 LAPSE:DT150

WIND SPEED(MPH)

WIND DIRECTION	1-3	3-4	8-12	13-18	19-24	>24	TOTAL
N	3	1	0	0	0	0	4
NNE	0	0	0	0	0	0	0
NE	0	0	2	0	0	0	2
ENE	0	0	2	0	0	0	2
E	1	1	1	0	0	0	3
ESE	1	0	3	0	0	0	4
SE	3	1	2	0	0	0	5
SSE	0	1	2	0	0	0	3
S	1	1	0	2	1	0	5
SSW	1	6	2	1	2	0	12
SW	9	12	2	0	0	0	23
WSW	10	46	2	0	0	0	57
W	17	26	0	0	0	0	43
WNW	7	17	0	0	0	0	24
NW	11	40	0	0	0	0	51
NNW	2	12	0	0	0	0	14
VARIABLE	9	0	0	0	0	0	9

TOTAL 838
PERIODS OF CALM(HO): 0
HOURS OF MISSING D...A: 838

HOURS AT EACH WIND SPEED AND DIRECTION

PERIOD OF RECORD= 81 4 1 1-81 83684

STABILITY CLASS: ALL

ELEVATION: SPEED:SPD33 DIRECTION:DIR33 LAPSE:DT150

WIND SPEED(MPH)

WIND DIRECTION	1-3	3-4	8-12	13-18	19-24	>24	TOTAL
N	13	16	11	12	0	0	52
NNE	4	18	8	1	0	0	32
NE	0	28	36	1	0	0	70
ENE	2	17	48	18	1	0	86
E	6	26	42	5	0	0	78
ESE	5	26	52	2	0	0	85
SE	9	33	38	8	0	0	89
SSE	8	27	67	30	1	0	133
S	7	47	66	61	7	0	187
SSW	10	58	88	42	10	0	208
SW	18	81	67	18	0	0	175
WSW	18	94	58	6	0	0	174
W	27	73	36	12	1	0	149
WNW	10	76	78	30	1	0	195
NW	17	78	58	22	1	0	177
NNW	8	28	28	8	0	0	64
VARIABLE	24	0	0	0	0	0	24

TOTAL 1848
PERIODS OF CALM(HOURS): 0
HOURS OF MISSING DATA: 838

TABLE 11

Oyster Creek Joint Frequency Tables of Wind Speed and Direction 380ft versus Delta Temperature 380-33ft

01/01/81-03/31/81

HOURS AT EACH WIND SPEED AND DIRECTION

PERIOD OF RECORD= 81 1 1 1-81 23124

STABILITY CLASS: A

ELEVATION: SPEED:SP380 DIRECTION:DIR380 LAPSE:DT380

WIND SPEED(MPH)

WIND DIRECTION	1-3	3-4	8-12	13-18	19-24	>24	TOTAL
N	0	0	0	0	1	0	1
NNE	0	0	0	0	0	0	0
NE	0	0	0	0	1	0	1
ENE	0	1	0	0	1	0	2
E	0	0	1	0	0	0	1
ESE	1	0	0	0	0	0	1
SE	0	0	1	0	0	0	1
SSE	0	0	0	2	0	0	2
S	0	0	0	1	0	0	1
SSW	0	0	0	0	0	0	0
SW	0	0	0	0	0	0	0
WSW	0	0	0	0	2	0	2
W	0	0	0	4	0	0	4
WNW	0	0	0	2	2	4	8
NW	1	0	2	4	9	4	20
NNW	0	0	0	0	1	0	1
VARIABLE	0	0	0	0	0	0	0

TOTAL 66

PERIODS OF CALM(HOURS): 0

HOURS OF MISSING DATA: 80

HOURS AT EACH WIND SPEED AND DIRECTION

PERIOD OF RECORD= 81 1 1 1-81 23124

STABILITY CLASS: B

ELEVATION: SPEED:SP380 DIRECTION:DIR380 LAPSE:DT380

WIND SPEED(MPH)

WIND DIRECTION	1-3	3-4	8-12	13-18	19-24	>24	TOTAL
N	0	0	1	2	0	0	3
NNE	0	0	0	0	0	0	0
NE	0	0	1	1	0	0	2
ENE	0	0	4	1	0	0	5
E	0	0	1	0	0	0	1
ESE	0	0	0	0	0	0	0
SE	0	0	0	0	0	0	0
SSE	0	0	1	1	0	0	2
S	0	0	0	0	0	0	0
SSW	0	0	0	0	0	0	0
SW	0	0	0	0	0	0	0
WSW	0	0	1	3	4	1	9
W	0	0	0	0	4	0	4
WNW	0	0	1	5	7	3	16
NW	0	0	1	2	6	2	11
NNW	0	0	1	0	1	0	2
VARIABLE	0	0	0	0	0	0	0

TOTAL 66

PERIODS OF CALM(HOURS): 0

HOURS OF MISSING DATA: 80

HOURS AT EACH WIND SPEED AND DIRECTION

PERIOD OF RECORD= 81 1 1 1-01 2318+

STABILITY CLASS: C

ELEVATION: SPEED:SPD300 DIRECTION:DIR300 LAPSE:DT300

WIND SPEED(MPH)

WIND DIRECTION	1-3	3-4	8-18	13-18	19-24	>24	TOTAL
N	0	0	1	2	1	0	4
NNE	0	0	0	0	0	0	0
NE	0	0	2	0	2	0	4
ENE	0	0	4	1	1	1	7
E	0	1	0	0	0	0	1
ESE	0	2	1	0	0	0	3
SE	0	0	1	1	0	0	2
SSE	0	0	0	1	0	0	1
S	0	0	0	0	0	0	0
SSW	0	0	1	1	1	0	3
SW	0	1	1	0	0	0	2
WSW	0	0	2	1	5	2	10
W	0	0	2	5	7	1	15
WNW	0	0	1	9	15	6	31
NW	0	0	4	12	8	14	38
NNW	0	0	1	4	2	1	8
VARIABLE	0	0	0	0	0	0	0

TOTAL 139
PERIODS OF CALM(HOURS): 0
HOURS OF MISSING DATA: 80

HOURS AT EACH WIND SPEED AND DIRECTION

PERIOD OF RECORD= 81 1 1 1-01 2318+

STABILITY CLASS: D

ELEVATION: SPEED:SPD300 DIRECTION:DIR300 LAPSE:DT300

WIND SPEED(MPH)

WIND DIRECTION	1-3	3-4	8-18	13-18	19-24	>24	TOTAL
N	0	2	5	4	4	1	16
NNE	1	2	3	6	1	0	13
NE	0	3	18	15	11	2	43
ENE	0	4	11	0	5	2	22
E	1	3	5	0	0	0	9
ESE	0	3	2	0	0	0	5
SE	1	4	3	1	5	0	14
SSE	0	1	3	1	0	1	11
S	1	1	3	16	2	1	29
SSW	0	4	6	22	16	2	49
SW	0	0	5	8	4	3	17
WSW	1	4	3	7	10	5	30
W	2	3	7	13	13	0	37
WNW	0	5	3	31	36	47	122
NW	0	2	2	22	27	47	100
NNW	3	1	10	15	15	11	53
VARIABLE	4	0	0	0	0	0	4

TOTAL 613
PERIODS OF CALM(HOURS): 0
HOURS OF MISSING DATA: 80

TABLE 11

HOURS AT EACH WIND SPEED AND DIRECTION

PERIOD OF RECORD= 81 1 1 1-81 23184

STABILITY CLASS: E

ELEVATION: SPEED:SPD300 DIRECTION:DIR300 LAPSE:DT300

WIND SPEED(MPH)

WIND DIRECTION	1-3	3-4	8-12	13-18	19-24	>24	TOTAL
N	0	4	5	6	0	5	25
NNE	1	2	10	3	2	0	18
NE	2	2	7	10	7	0	28
ENE	1	3	2	5	6	1	18
E	1	2	3	2	0	7	15
ESE	1	0	3	1	2	10	17
SE	1	1	0	2	2	7	13
SSE	0	0	2	5	9	11	27
S	0	0	5	8	6	17	36
SSW	1	1	6	10	20	25	62
SW	0	3	3	12	31	15	64
WSW	0	1	3	12	10	10	36
W	0	0	6	15	25	12	58
WNW	0	1	11	44	68	10	134
NW	0	4	7	42	81	28	162
NNW	1	1	7	16	24	3	52
VARIABLE	4	0	0	0	0	0	4

TOTAL 720
PERIODS OF CALM(HOURS): 0
HOURS OF MISSING DATA: 80

HOURS AT EACH WIND SPEED AND DIRECTION

PERIOD OF RECORD= 81 1 1 1-81 23184

STABILITY CLASS: F

ELEVATION: SPEED:SPD300 DIRECTION:DIR300 LAPSE:DT300

WIND SPEED(MPH)

WIND DIRECTION	1-3	3-4	8-12	13-18	19-24	>24	TOTAL
N	0	2	0	13	1	0	26
NNE	1	0	3	6	0	0	10
NE	0	1	5	3	2	0	11
ENE	0	1	0	1	0	0	2
E	0	0	1	0	0	0	1
ESE	1	0	0	0	0	0	1
SE	0	1	2	2	1	2	8
SSE	0	2	4	1	1	0	8
S	1	2	1	2	2	0	8
SSW	0	0	3	4	9	4	20
SW	0	2	0	2	7	5	21
WSW	0	1	2	2	4	2	10
W	0	2	2	11	0	11	41
WNW	0	0	2	11	13	2	28
NW	0	2	5	13	12	4	36
NNW	0	5	5	11	24	2	53
VARIABLE	1	0	0	0	0	0	1

TOTAL 393
PERIODS OF CALM(HOURS): 0
HOURS OF MISSING DATA: 80

HOURS AT EACH WIND SPEED AND DIRECTION

PERIOD OF RECORD= 01 1 1 1-01 23124

STABILITY CLASS: G

ELEVATION: SPEED:SPD10M DIRECTION:DIR10M LAPSE:DT10M

WIND SPEED(MPH)

WIND DIRECTION	1-3	3-4	8-12	13-18	19-24	>24	TOTAL
N	4	3	8	6	1	0	22
NNE	0	3	4	1	0	0	8
NE	1	5	3	2	0	0	11
ENE	0	5	2	1	0	0	8
E	1	3	4	1	0	0	9
ESE	0	0	0	0	0	0	0
SE	0	0	2	1	0	0	3
SSE	0	1	1	4	0	0	6
S	0	0	4	10	0	0	14
SSW	0	1	1	5	0	0	7
SW	0	1	2	6	3	1	13
WSW	0	1	3	9	0	0	13
W	0	2	1	0	1	1	5
WNW	0	2	3	7	4	1	17
NW	0	2	4	9	6	2	23
NNW	0	2	4	6	5	1	18
VARIABLE	2	0	0	0	0	0	2

TOTAL 178
PERIODS OF CALM(HOURS): 0
HOURS OF MISSING DATA: 80

HOURS AT EACH WIND SPEED AND DIRECTION

PERIOD OF RECORD= 01 1 1 1-01 23124

STABILITY CLASS: ALL

ELEVATION: SPEED:SPD10M DIRECTION:DIR10M LAPSE:DT10M

WIND SPEED(MPH)

WIND DIRECTION	1-3	3-4	8-12	13-18	19-24	>24	TOTAL
N	4	11	29	32	14	6	96
NNE	3	7	25	16	3	0	54
NE	3	11	30	31	23	2	100
ENE	1	14	23	9	13	4	64
E	3	9	15	3	0	7	37
ESE	3	5	6	1	2	10	27
SE	2	6	9	7	2	0	41
SSE	0	4	16	15	10	12	57
S	2	3	10	31	10	12	68
SSW	1	6	17	42	54	41	161
SW	0	7	20	31	36	23	116
WSW	1	7	17	36	36	23	118
W	2	6	23	42	59	28	164
WNW	0	2	27	109	145	77	326
NW	1	10	31	108	130	103	391
NNW	4	9	28	56	76	84	197
VARIABLE	11	0	0	0	0	0	11

TOTAL 2071
PERIODS OF CALM(HOURS): 0
HOURS OF MISSING DATA: 80

TABLE 12
Oyster Creek Joint Frequency Tables of Wind Speed and Direction 380ft
versus Delta Temperature 380-33ft
04/01/81-06/30/81

HOURS AT EACH WIND SPEED AND DIRECTION

PERIOD OF RECORD= 81 4 1 1-81 63024

STABILITY CLASS: A

ELEVATION: SPEED:SPD380 DIRECTION:DIR380 LAPSE:DT380

WIND SPEED(MPH)

WIND DIRECTION	1-2	3-4	8-12	13-18	19-24	>24	TOTAL
N	0	0	0	0	2	0	2
NNE	0	0	1	0	1	0	2
NE	0	0	2	2	0	0	4
ENE	0	0	3	6	3	2	14
E	0	0	3	1	1	0	5
ESE	0	0	2	1	0	0	3
SE	0	0	6	1	0	0	7
SSE	0	0	1	1	0	0	2
S	0	0	1	1	0	0	2
SSW	0	0	1	0	0	0	1
SW	0	1	0	2	1	0	4
WSW	0	0	0	2	1	1	4
W	0	1	0	1	0	0	2
WNW	0	0	0	7	3	7	17
NW	0	0	1	7	5	7	20
NNW	0	0	1	1	1	2	5
VARIABLE	0	0	0	0	0	0	0

TOTAL 88
PERIODS OF CALM(HOURS): 0
HOURS OF MISSING DATA: 187

HOURS AT EACH WIND SPEED AND DIRECTION

PERIOD OF RECORD= 81 4 1 1-81 63024

STABILITY CLASS: B

ELEVATION: SPEED:SPD380 DIRECTION:DIR380 LAPSE:DT380

WIND SPEED(MPH)

WIND DIRECTION	1-2	3-4	8-12	13-18	19-24	>24	TOTAL
N	0	0	0	2	4	0	6
NNE	0	0	0	1	0	0	1
NE	0	0	2	1	0	0	3
ENE	0	0	1	3	0	0	4
E	0	0	2	0	0	0	2
ESE	0	0	4	1	0	0	5
SE	0	1	4	1	0	0	6
SSE	0	0	1	4	0	0	5
S	0	0	1	4	1	1	7
SSW	0	0	0	1	3	0	4
SW	0	0	0	1	0	0	1
WSW	0	0	0	1	0	0	1
W	0	0	1	2	2	1	6
WNW	0	0	0	1	1	5	7
NW	0	1	0	8	3	2	14
NNW	0	0	1	2	2	0	5
VARIABLE	0	0	0	0	0	0	0

TOTAL 77
PERIODS OF CALM(HOURS): 0
HOURS OF MISSING DATA: 187

HOURS AT EACH WIND SPEED AND DIRECTION

PERIOD OF RECORD= 81 4 1 1-81 63024

STABILITY CLASS: G

ELEVATION: SPEED:SPD300 DIRECTION:DIR300 LAPSE:DT300

WIND SPEED(MPH)

WIND DIRECTION	1-2	3-4	8-12	13-18	19-24	>24	TOTAL
N	0	0	0	0	2	0	2
NNE	0	1	0	0	0	0	1
NE	0	0	2	1	0	0	3
ENE	0	0	3	3	2	0	8
E	0	1	5	3	0	0	9
ESE	0	0	2	0	0	0	2
SE	0	2	2	0	0	0	4
SSE	0	1	1	3	1	0	6
S	0	1	0	14	3	0	18
SSW	0	0	3	10	5	1	21
SW	0	0	0	2	0	0	2
WSW	0	0	1	0	0	0	1
W	0	1	0	5	1	2	9
WNW	0	0	1	7	6	3	17
NW	0	0	1	5	6	6	22
NNW	0	1	4	2	0	4	11
VARIABLE	0	0	0	0	0	0	0

TOTAL 138
PERIODS OF CALM(HOURS): 0
HOURS OF MISSING DATA: 157

HOURS AT EACH WIND SPEED AND DIRECTION

PERIOD OF RECORD= 81 4 1 1-81 63024

STABILITY CLASS: D

ELEVATION: SPEED:SPD300 DIRECTION:DIR300 LAPSE:DT300

WIND SPEED(MPH)

WIND DIRECTION	1-2	3-4	8-12	13-18	19-24	>24	TOTAL
N	0	1	6	7	3	0	17
NNE	0	1	11	5	2	0	19
NE	0	3	11	7	2	0	23
ENE	0	2	14	11	9	7	43
E	0	2	11	11	4	2	30
ESE	1	2	21	5	0	0	32
SE	0	4	20	5	0	0	32
SSE	0	6	20	23	5	0	54
S	1	6	17	22	3	5	60
SSW	0	0	5	24	22	13	70
SW	1	3	1	14	14	19	52
WSW	0	3	3	14	21	4	51
W	0	2	4	14	5	0	25
WNW	0	3	3	18	14	5	43
NW	0	0	10	20	20	14	64
NNW	2	2	2	5	5	4	18
VARIABLE	0	0	0	0	0	0	0

TOTAL 630
PERIODS OF CALM(HOURS): 0
HOURS OF MISSING DATA: 157

HOURS AT EACH WIND SPEED AND DIRECTION

PERIOD OF RECORD= 81 4 1 1-81 63084

STABILITY CLASS: E

ELEVATION: SPEED:SPD300 DIRECTION:DIR300 LAPSE:DT300

WIND SPEED(MPH)

WIND DIRECTION	1-3	3-4	8-12	13-18	19-24	>24	TOTAL
N	0	1	8	1	1	0	6
NNE	1	0	6	1	0	0	8
NE	1	4	20	10	3	0	38
ENE	0	1	17	8	0	1	27
E	1	2	6	8	1	0	18
ESE	0	3	7	6	0	0	16
SE	0	5	7	8	8	0	28
SSE	0	6	10	10	18	9	53
S	3	5	11	13	4	6	41
SSW	0	4	13	40	46	14	117
SW	1	0	7	23	51	20	101
WSW	1	1	0	20	31	3	66
W	1	0	5	12	18	0	36
WNW	0	1	6	14	23	16	60
NW	0	3	7	16	23	9	63
NNW	0	3	3	6	18	3	33
VARIABLE	1	1	0	0	0	0	2

TOTAL 727
PERIODS OF CALM(HOURS): 0
HOURS OF MISSING DATA: 187

HOURS AT EACH WIND SPEED AND DIRECTION

PERIOD OF RECORD= 81 4 1 1-81 63084

STABILITY CLASS: F

ELEVATION: SPEED:SPD300 DIRECTION:DIR300 LAPSE:DT300

WIND SPEED(MPH)

WIND DIRECTION	1-3	3-4	8-12	13-18	19-24	>24	TOTAL
N	0	0	1	7	3	2	13
NNE	0	1	2	0	0	0	3
NE	0	0	3	0	0	0	3
ENE	1	0	1	0	0	0	2
E	0	0	1	1	0	0	2
ESE	0	0	1	0	0	0	1
SE	0	0	1	0	0	0	1
SSE	0	1	2	1	0	0	4
S	0	0	1	1	1	0	3
SSW	0	0	1	1	3	0	5
SW	0	0	2	4	10	4	20
WSW	1	1	5	5	3	4	24
W	0	0	2	8	4	0	18
WNW	0	1	2	10	17	3	33
NW	1	2	5	2	19	1	30
NNW	0	0	1	5	6	3	15
VARIABLE	0	0	0	0	0	0	0

TOTAL 177
PERIODS OF CALM(HOURS): 0
HOURS OF MISSING DATA: 187

HOURS AT EACH WIND SPEED AND DIRECTION

PERIOD OF RECORD= 81 4 1 1-81 63084

STABILITY CLASS: G

ELEVATION: SPEED:SPD300 DIRECTION:DIR300 LAPSE:DT300

WIND SPEED(MPH)

WIND DIRECTION	1-3	3-4	8-12	13-18	19-24	>24	TOTAL
N	2	4	3	0	13	4	26
NNE	1	1	4	8	2	0	16
NE	1	5	8	1	0	0	16
ENE	0	2	2	0	1	0	5
E	0	2	0	0	0	0	2
ESE	0	1	0	0	0	0	1
SE	0	1	5	0	0	0	6
SSE	0	0	3	0	0	0	3
S	0	1	0	1	0	0	2
SSW	0	1	1	8	1	0	5
SW	0	1	1	3	8	1	11
WSW	1	2	3	5	3	6	20
W	1	2	4	1	3	5	16
WNW	0	0	4	4	4	0	12
NW	0	0	3	4	8	4	17
NNW	0	1	4	3	1	1	10
VARIABLE	2	0	0	0	0	0	2

TOTAL 177
PERIODS OF CALM(HOURS): 0
HOURS OF MISSING DATA: 187

HOURS AT EACH WIND SPEED AND DIRECTION

PERIOD OF RECORD= 81 4 1 1-81 63084

STABILITY CLASS: ALL

ELEVATION: SPEED:SPD300 DIRECTION:DIR300 LAPSE:DT300

WIND SPEED(MPH)

WIND DIRECTION	1-3	3-4	8-12	13-18	19-24	>24	TOTAL
N	2	6	18	36	20	5	81
NNE	2	8	23	31	5	8	87
NE	2	12	51	22	4	0	91
ENE	1	5	41	31	14	11	103
E	1	7	28	24	6	2	68
ESE	1	6	37	16	0	0	60
SE	0	13	46	18	2	0	79
SSE	0	14	28	41	24	0	106
S	2	13	31	56	18	12	133
SSW	0	5	23	78	29	28	223
SW	2	14	11	48	31	24	211
WSW	3	7	27	47	24	18	126
W	2	11	18	41	20	8	100
WNW	0	5	22	31	74	33	195
NW	1	6	27	26	28	43	230
NNW	0	7	18	24	23	17	87
VARIABLE	3	1	0	0	0	0	4

TOTAL 2087
PERIODS OF CALM(HOURS): 0
HOURS OF MISSING DATA: 187

III. ENVIRONMENTAL SUMMARY

Radiological Environmental Monitoring

The environmental monitoring program was conducted during the reporting period in accordance with Technical Specification 4.6.B.3. A single exception was vendor failure to perform some of the required analyses on May clam samples from stations 23, 24, 25.

Also, it should be noted that the freezing of Barnegat Bay during January and February prevented the collection of some clam, silt and surface water samples.

The program included five general types of monitoring. These were (1) atmospheric radiation (2) fallout (3) domestic water (4) surface water and (5) marine life. This monitoring was accomplished by analyzing film badges for exposure and particulate filters, rain water, vegetation, soil, crops, well water, surface water, silt and clams for radioactivity. The analyses results from these samples are found on the forthcoming tables. The scheduled collection period covered by this monitoring extended from December 1, 1980 through May 31, 1981. The sampling locations are listed in Table 13 and are depicted in Figure 1.

TABLE 13
OYSTER CREEK STATION
ENVIRONMENTAL MONITORING STATIONS
LOCATION AND TYPE SAMPLE COLLECTED

STATION NUMBER		SAMPLE COLLECTED
1	Forked River, N.J. - Oyster Creek Meteorological Tower	AP, RG, RW, WW, V, E
T1	Forked River, N.J. - Oyster Creek Meteorological Tower	RG
2	Pinewald, N.J. - Route #9 at JCP&L Company Pinewald Substation north of Forked River, N.J.	AP, RG, RW, V, E
3	Island Beach State Park, N.J. - Near old Coast Guard Station	AP, RG, RW, V, E
4	Barnegat, N.J. - Route #534, Windward at Barnegat, first road West of Parkway Exit	AP, RG, RW, V, E
5	Forked River, N.J. - Garden State Parkway Northbound Entrance to Holiday House	AP, RG, RW, V, E
6	Forked River, N.J. - Lane Place, behind St. Pius X Catholic Church	RG
7	Waretown, N.J. - Compass Road, second pole North of Bay Parkway	RG
8	Waretown, N.J. - Route #9 at the Waretown Substation	RG
9	Waretown, N.J. - Route #532, North side of road at Parkway	RG
10	Toms River, N.J. - Route #37 East, adjacent to "Eastern Off Road Supplied"	RG
11	Harvey Cedars, N.J. - Long Beach Blvd. and East 70th Street, Long Beach Island	RG
12	Cedar Run, N. J. - Route #9, East of Assembly of God Church	RG
13	South Toms River, N.J. - Dover Road, next to last pole traveling West on North side	RG
14	Lakewood, N.J. - Larrabee Substation, just off Route #547 on Randolph Road	RG

TABLE 13 (Con't)
OYSTER CREEK STATION
ENVIRONMENTAL MONITORING STATIONS
LOCATION AND TYPE SAMPLE COLLECTED

STATION NUMBER		SAMPLE COLLECTED
15	New Egypt, N.J. - Route #539, last pole on South side, adjacent to "Bomark" Site	RG
16	Intersection of Route #563 and Route #72, two poles South	RG
17	New Gretna, N.J. - Route #563, 2 miles North, next to High Voltage Line	RG
18	Forked River, N.J. - Lacey Road, Captain Richie's Marina	WW
19	Forked River, N.J. - 1015 Inland Road, Forked River Beach	WW
20	Forked River, N.J. - Finninger Farm at Environmental Lab	WW
21	Waretown, N.J. - 215 Dock Avenue, Sands Point Harbor	WW
22	Waretown, N.J. - 1014 Long John Silver Way, Skippers Cove	WW
23	Barnegat Bay - Off Stouts Creek, approximately 400 yards SE (150°) of FL "1" (Heading on BN "D")	SW, AQS, AQL
24	Barnegat Bay - Approximately 250 yards SE (180) of FL "3" (Heading on N "66")	SW, AQS, AQL
25	Barnegat Bay - Off Holiday Harbor; approximately 200 yards SE (140°) of the Lagoon Mouth	SW, AQS, AQL
26	Forked River, N.J. - South Branch of Forked River, North of Bridge to Visitor Center	SW, AQS
27	Forked River, N.J. - Downstream of Oyster Creek Fire Pond, approximately 10 yards	SW, AQS
28	Forked River, N.J. - Lacey Road and the Garden State Parkway	FPV

TABLE 13 (Con't)
OYSTER CREEK STATION
ENVIRONMENTAL MONITORING STATIONS
LOCATION AND TYPE SAMPLE COLLECTED

STATION NUMBER		SAMPLE COLLECTED
29	Barnegat, N.J. - Route #534 and the Garden State Parkway	FPV
30	Forked River, N.J. - Finninger Farm along Fence	FPV
31	Manahawkin Bay - Approximately 25 yards SE (140°) of C "23" and N "24"	SW, AQS, AQL
32	Oyster Creek - Mouth of Creek midway between Bulkhead on North Shore and South Shore of Creek	SW, AQS
33	Oyster Creek - Approximately 1200 yards East of Route #9 Bridge, in middle of channel, directly South of Bulkhead running perpendicular to North Shore	SW, AQS
A	Allenhurst, N.J. - JCP&L Company District Headquarters, on roof	BG, AP, RW
C	Cookstown, N.J. - Route #528 Spur, at JCP&L Company District Dispatcher	BG, AP, RW
H	Hammonton, N.J. - Egg Harbor Road, at the Atlantic City Electric District Dispatcher	BG, AP, RW

AP = Air Particulate

BG = Radiogas/Direct Radiation

RW = Precipitation

WW = Well Water

SW = Surface Water

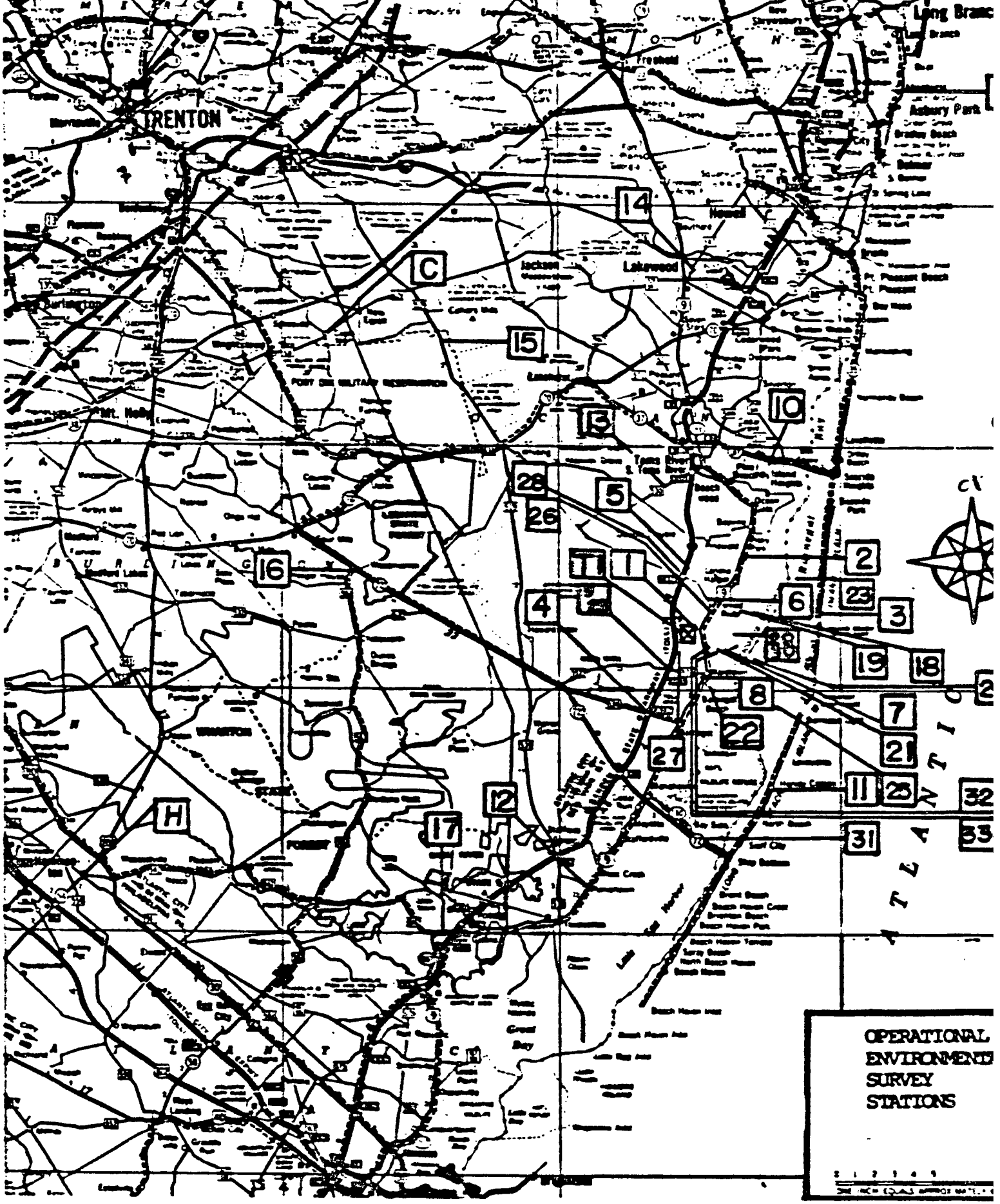
AQS = Silt

AQL = Clams

FPV = Pasture/Crops

V = Vegetation

E = Soil



OYSTER CREEK NUCLEAR GENERATING STATION

FIGURE 1

Table 14
Radiogas Film Badges
Scheduled Collection Period
December 1, 1980 through May 31, 1981

Collection Date		12-8-80	1-5-81	2-2-81		Three Month Total	3-2-81	3-30-81	4-27-81	5-26-81	Three Month Total	Six Month Total
Station	Unit											
1	Millirem	3	0	0		3	0	4	3	0	7	10
T1	Millirem	0	0	4		4	0	0	0	0	0	4
2	Millirem	0	0	0		0	0	0	2	0	2	2
3	Millirem	0	0	0		0	0	0	2	0	2	2
4	Millirem	0	0	0		0	0	0	2	0	2	2
5	Millirem	0	0	0		0	0	0	2	0	2	2
6	Millirem	0	0	0		0	0	0	2	0	2	2
7	Millirem	0	0	0		0	0	0	2	0	2	2
8	Millirem	0	0	0		0	0	0	0	0	0	0
9	Millirem	0	0	0		0	0	0	0	0	0	0
10	Millirem	0	0	0		0	0	0	0	0	0	0
11	Millirem	0	0	4		4	0	0	0	0	4	4
12	Millirem	0	0	0		0	0	0	0	0	0	0
13	Millirem	0	0	0		0	0	0	0	0	0	0
14	Millirem	0	0	0		0	0	8	0	0	8	8
15	Millirem	0	0	0		0	0	0	0	0	0	0
16	Millirem	0	0	0		0	0	0	0	0	0	0
17	Millirem	0	0	0		0	0	0	0	0	0	0
A	Millirem	0	0	0		0	0	0	0	0	0	0
C	Millirem	0	0	0		0	0	0	2	0	2	2
H	Millirem	0	0	0		0	0	4	0	0	4	4

TABLE 15

GAMMA DOSE TO THE ENVIRONMENT (MR)

AS MEASURED BY

THERMOLUMINESCENT DOSIMETER

FOR

DECEMBER 1980 THRU MAY 1981 (MONTHLY TLD READINGS)

ANALYSIS DATE:	17DEC80		16JAN81		11FEB81			16MAR81		09APR81		07MAY81		10JUN81			
STATION	COLLECT DATE	DOSE	COLLECT DATE	DOSE	COLLECT DATE	DOSE	3-MO TOTAL	COLLECT DATE	DOSE	COLLECT DATE	DOSE	COLLECT DATE	DOSE	COLLECT DATE	DOSE	3-MO TOTAL	6-MO TOTAL
A	09DEC80	5.06	06JAN81	5.35	03FEB81	6.77	17.18	03MAR81	6.55	01APR81	5.12	28APR81	4.39	04JUN81	4.65	20.91	38.09
C	08DEC80	4.84	05JAN81	4.56	02FEB81	5.56	14.16	03MAR81	5.61	31MAR81	4.47	27APR81	3.83	05JUN81	4.50	16.49	32.65
H	08DEC80	3.86	05JAN81	3.81	02FEB81	4.88	12.55	02MAR81	5.32	31MAR81	3.86	27APR81	4.40	05JUN81	3.96	17.56	30.11
1	10DEC80	5.54	08JAN81	6.85	04FEB81	8.25	19.84	10MAR81	8.11	02APR81	6.67	30APR81	5.56	05JUN81	5.65	25.99	45.83
2	11DEC80	3.58	08JAN81	4.44	03FEB81	4.96	12.98	04MAR81	5.56	03APR81	3.94	30APR81	5.76	04JUN81	4.23	19.49	32.47
3	09DEC80	3.64	06JAN81	4.55	03FEB81	5.12	13.31	06MAR81	5.16	01APR81	3.84	28APR81	4.26	04JUN81	4.12	17.38	30.69
4	08DEC80	3.88	09JAN81	4.14	04FEB81	4.95	12.97	02MAR81	4.92	31MAR81	3.57	27APR81	4.19	03JUN81	4.39	17.07	30.04
5	11DEC80	3.88	08JAN81	3.99	05FEB81	5.54	13.41	09MAR81	5.16	03APR81	4.26	30APR81	4.03	04JUN81	4.60	18.05	31.46
6	*	.	08JAN81	4.20	03FEB81	5.37	9.57	03MAR81	5.60	03APR81	3.97	30APR81	4.47	04JUN81	3.99	18.03	27.60
7	11DEC80	3.89	08JAN81	4.15	04FEB81	6.02	14.06	02MAR81	5.49	02APR81	4.15	29APR81	4.44	*	.	14.08	28.14
8	10DEC80	3.76	09JAN81	4.00	04FEB81	5.11	12.87	02MAR81	5.28	02APR81	3.77	29APR81	4.83	03JUN81	3.63	16.76	29.63
9	11DEC80	4.17	09JAN81	4.74	04FEB81	5.62	14.53	02MAR81	5.[illegible]	02APR81	4.82	29APR81	4.71	03JUN81	4.43	19.62	34.15
T1	10DEC80	5.94	08JAN81	6.87	04FEB81	7.89	20.70	10MAR81	8.4[illegible]	02APR81	5.85	30APR81	5.65	05JUN81	4.98	24.94	45.64
10	09DEC80	3.80	06JAN81	4.73	03FEB81	5.02	13.55	04MAR81	5.64	01APR81	4.64	28APR81	4.27	04JUN81	4.24	18.79	32.34
11	10DEC80	[illegible].84	08JAN81	4.38	04FEB81	5.87	13.21	02MAR81	5.83	02APR81	4.37	29APR81	3.28	03JUN81	3.66	17.34	30.55
12	10DEC80	3.81	05JAN81	4.29	02FEB81	4.64	12.74	02MAR81	5.45	31MAR81	3.67	29APR81	4.19	05JUN81	4.19	17.50	30.24
13	09DEC80	3.64	08JAN81	4.39	03FEB81	4.84	12.87	05MAR81	5.08	01APR81	4.07	28APR81	5.20	04JUN81	4.17	18.52	31.39
14	09DEC80	4.95	06JAN81	5.78	03FEB81	6.01	16.74	03MAR81	7.31	01APR81	5.67	28APR81	5.70	04JUN81	5.62	24.30	41.04
15	08DEC80	3.81	05JAN81	3.97	02FEB81	5.06	12.84	03MAR81	4.83	31MAR81	4.27	27APR81	5.35	05JUN81	4.37	18.82	31.66
16	10DEC80	3.61	09JAN81	4.13	04FEB81	5.28	13.02	02MAR81	5.22	02APR81	3.84	29APR81	3.78	03JUN81	4.30	17.14	30.16
17	08DEC80	3.92	05JAN81	4.41	02FEB81	5.37	13.70	02MAR81	5.42	31MAR81	4.41	27APR81	4.55	05JUN81	3.83	18.21	31.91

* LOST

TABLE 16

RADIOLOGICAL ENVIRONMENTAL MONITORING PROGRAM SUMMARY
OYSTER CREEK NUCLEAR GENERATING STATION
DECEMBER,1980 THROUGH MAY,1981

THE FOLLOWING PAGES ARE A SUMMARY OF REMP DATA FOR THE SCHEDULED COLLECTION PERIOD DECEMBER,1980 THRU MAY,1981. DATA IS SUMMARIZED ON A SEMI-ANNUAL AND QUARTERLY BASIS, WHERE

1.) XXX-MEAN(N/TOTAL); MEAN AND RANGE BASED ON
RANGE DETECTABLE ACTIVITIES OF
ALL XXX STATIONS

2.) XXX=BACKGROUND OR INDICATOR STATIONS

3.) (N/TOTAL)=FRACTION OF DETECTABLE ACTIVITIES/
TOTAL NUMBER OF ANALYSES PERFORMED

4.) STATION=STATION WITH HIGHEST SEMI-ANNUAL MEAN

5.) BACKGROUND STATIONS USED ARE:

STATION	A,C,H	31
SAMPLE TYPE	AIR PARTICULATE	SILT
	AIR IODINE	CLAMS
	PRECIPITATION	SURFACE WATER

TABLE 17

RADIOLOGICAL ENVIRONMENTAL MONITORING PROGRAM SUMMARY
OYSTER CREEK NUCLEAR GENERATING STATION
DECEMBER,1980 THROUGH MAY,1981
SEMI-ANNUAL SUMMARY

SAMPLE TYPE	ANALYSIS	ISOTOPE	NUMBER OF ANALYSES PERFORMED	LLD	INDICATOR-MEAN(N/TOTAL) RANGE	STATION	BACKGROUND-MEAN(N/TOTAL) RANGE STATION-MEAN(N/TOTAL) RANGE	STATIONS USED FOR INDICATOR MEAN
VEGETATION (PCI/GM(WET))	GROSS BETA		35	4.87E-02	4.80E+00 (35 /35) (6.25E-01 - 9.88E+00)		. (. /.) (. - .)	1 2 3 4 5
						1	9.92E+00(7 /7) (6.25E-01 - 9.88E+00)	
AIR PARTICULATE (PCI/M3)	GROSS ALPHA		24	3.22E-02	9.80E-04 (8 /15) (9.43E-04 - 1.40E-03)		1.11E-03(4 /9) (8.38E-04 - 1.55E-03)	1 2 3 4 5
						4	1.40E-03(1 /3) (1.40E-03 - 1.40E-03)	
AIR PARTICULATE (PCI/M3)	GROSS BETA		104	9.64E-02	1.16E-01 (65 /65) (3.42E-02 - 3.46E-01)		9.08E-02(39 /39) (2.55E-02 - 2.79E-01)	1 2 3 4 5
						2	1.30E-01(11 /11) (4.84E-02 - 3.46E-01)	
AIR PARTICULATE (PCI/M3)	GELI GAMMA	CE-144	104	1.40E+00	5.67E-02 (11 /65) (9.70E-03 - 1.10E-01)		4.95E-02(4 /39) (3.50E-02 - 9.20E-02)	1 2 3 4 5
						4	7.60E-02(2 /13) (4.20E-02 - 1.10E-01)	
AIR PARTICULATE (PCI/M3)	GELI GAMMA	AG-110M	104	2.70E-01	< LLD (0 /65)		< LLD (0 /39)	1 2 3 4 5
						5	< LLD (0 /13)	
AIR PARTICULATE (PCI/M3)	GELI GAMMA	TE-129M	104	9.70E+00	< LLD (0 /65)		1.00E-01(1 /19) (1.00E-01 - 1.00E-01)	1 2 3 4 5
						5	< LLD (0 /13)	
AIR PARTICULATE (PCI/M3)	GELI GAMMA	MO-99	71	3.70E+00	< LLD (0 /48)		< LLD (0 /23)	1 2 3 4 5
						5	< LLD (0 /10)	

TABLE 17

RADIOLOGICAL ENVIRONMENTAL MONITORING PROGRAM SUMMARY
OYSTER CREEK NUCLEAR GENERATING STATION
DECEMBER,1980 THROUGH MAY,1981
SEMI-ANNUAL SUMMARY

SAMPLE TYPE	ANALYSIS	ISOTOPE	NUMBER OF ANALYSES PERFORMED	LLD	INDICATOR-MEAN(N/TOTAL) RANGE	STATION	STATION-MEAN(N/TOTAL) RANGE	BACKROUND-MEAN(N/TOTAL) RANGE	STATIONS USED FOR INDICATOR MEAN
AIR PARTICULATE (PCI/M3)	GELI GAMMA	CS-134	104	2.90E-01	< LLD (0 /65)			< LLD (0 /39)	1 2 3 4 5
						5	< LLD (0 /13)		
AIR PARTICULATE (PCI/M3)	GELI GAMMA	CO-58	104	3.10E-01	< LLD (0 /65)			< LLD (0 /39)	1 2 3 4 5
						5	< LLD (0 /13)		
AIR PARTICULATE (PCI/M3)	GELI GAMMA	MN-54	104	3.80E-01	< LLD (0 /65)			< LLD (0 /39)	1 2 3 4 5
						5	< LLD (0 /13)		
AIR PARTICULATE (PCI/M3)	GELI GAMMA	TH-232	104	1.20E+00	< LLD (0 /65)			< LLD (0 /39)	1 2 3 4 5
						5	< LLD (0 /13)		
AIR PARTICULATE (PCI/M3)	GELI GAMMA	FE-59	104	6.20E-01	< LLD (0 /65)			< LLD (0 /39)	1 2 3 4 5
						5	< LLD (0 /13)		
AIR PARTICULATE (PCI/M3)	GELI GAMMA	CS-136	104	6.20E-01	< LLD (0 /65)			< LLD (0 /39)	1 2 3 4 5
						5	< LLD (0 /13)		
AIR PARTICULATE (PCI/M3)	GELI GAMMA	ZN-65	104	8.10E-01	< LLD (0 /65)			< LLD (0 /39)	1 2 3 4 5
						5	< LLD (0 /13)		

TABLE 17

RADIOLOGICAL ENVIRONMENTAL MONITORING PROGRAM SUMMARY
OYSTER CREEK NUCLEAR GENERATING STATION
DECEMBER,1980 THROUGH MAY,1981
SEMI-ANNUAL SUMMARY

SAMPLE TYPE	ANALYSIS	ISOTOPE	NUMBER OF ANALYSES PERFORMED	LLD	INDICATOR-MEAN(N/TOTAL) RANGE	STATION	BACKROUND-MEAN(N/TOTAL) RANGE STATION-MEAN(N/TOTAL) RANGE	STATIONS USED FOR INDICATOR MEAN
AIR PARTICULATE (PCI/M3)	GELI GAMMA	CO-60	104	3.90E-01	< LLD (0 /65)		3.10E-02(1 /39) (3.10E-02 - 3.10E-02)	1 2 3 4 5
						5	< LLD (0 /13)	
AIR PARTICULATE (PCI/M3)	GELI GAMMA	K-40	104	5.50E+00	< LLD (0 /65)		< LLD (0 /39)	1 2 3 4 5
						5	< LLD (0 /13)	
AIR PARTICULATE (PCI/M3)	GELI GAMMA	BE-7	104	2.90E+00	9.64E-02 (18 /65) (4.90E-02 - 2.20E-01)		9.15E-02(6 /39) (5.20E-02 - 1.30E-01)	1 2 3 4 5
						2	1.38E-01(2 /13) (5.70E-02 - 2.20E-01)	
AIR PARTICULATE (PCI/M3)	GELI GAMMA	ZR-95	104	4.70E-01	4.44E-02 (22 /65) (1.80E-02 - 8.50E-02)		3.32E-02(12 /39) (2.80E-02 - 5.10E-02)	1 2 3 4 5
						2	5.52E-02(4 /13) (4.40E-02 - 7.10E-02)	
AIR PARTICULATE (PCI/M3)	GELI GAMMA	NB-95	104	4.40E-01	6.13E-02 (52 /65) (1.20E-02 - 1.70E-01)		5.22E-02(30 /39) (6.40E-03 - 1.30E-01)	1 2 3 4 5
						2	6.88E-02(12 /13) (1.40E-02 - 1.40E-01)	
AIR PARTICULATE (PCI/M3)	GELI GAMMA	SB-125	104	8.20E-01	< LLD (0 /65)		< LLD (0 /39)	1 2 3 4 5
						5	< LLD (0 /13)	
AIR PARTICULATE (PCI/M3)	GELI GAMMA	CE-141	104	1.40E-01	1.21E-02 (8 /65) (3.20E-03 - 2.10E-02)		1.11E-02(3 /39) (7.30E-03 - 1.40E-02)	1 2 3 4 5
						4	1.70E-02(2 /13) (1.30E-02 - 2.10E-02)	

TABLE 17

RADIOLOGICAL ENVIRONMENTAL MONITORING PROGRAM SUMMARY
OYSTER CREEK NUCLEAR GENERATING STATION
DECEMBER,1980 THROUGH MAY,1981
SEMI-ANNUAL SUMMARY

SAMPLE TYPE	ANALYSIS	ISOTOPE	NUMBER OF ANALYSES PERFORMED	LLD	INDICATOR-MEAN(N/TOTAL) RANGE	STATION	BACKGROUND-MEAN(N/TOTAL) RANGE STATION-MEAN(N/TOTAL) RANGE	STATIONS USED FOR INDICATOR MEAN
AIR PARTICULATE (PCI/M3)	GELI GAMMA	RU-103	104	3.00E-01	1.89E-02 (31 /65) (7.40E-03 - 3.80E-02)		1.59E-02(12 /39) (2.80E-03 - 2.90E-02)	1 2 3 4 5
						2	2.31E-02(8 /13) (1.00E-02 - 3.30E-02)	
AIR PARTICULATE (PCI/M3)	GELI GAMMA	CR-51	104	2.70E+00	< LLD (0 /65)		< LLD (0 /39)	1 2 3 4 5
						5	< LLD (0 /13)	
AIR PARTICULATE (PCI/M3)	GELI GAMMA	BA-140	104	2.20E+00	< LLD (0 /65)		< LLD (0 /39)	1 2 3 4 5
						5	< LLD (0 /13)	
AIR PARTICULATE (PCI/M3)	GELI GAMMA	LA-140	96	2.40E-01	< LLD (0 /62)		< LLD (0 /34)	1 2 3 4 5
						5	< LLD (0 /13)	
AIR PARTICULATE (PCI/M3)	GELI GAMMA	RA-226	104	6.50E-01	< LLD (0 /65)		< LLD (0 /39)	1 2 3 4 5
						5	< LLD (0 /13)	
AIR PARTICULATE (PCI/M3)	GELI GAMMA	I-131	104	6.50E-01	< LLD (0 /65)		< LLD (0 /39)	1 2 3 4 5
						5	< LLD (0 /13)	
AIR PARTICULATE (PCI/M3)	GELI GAMMA	NP-239	45	2.30E+01	< LLD (0 /28)		< LLD (0 /17)	1 2 3 4 5
						5	< LLD (0 /6)	

TABLE 17

RADIOLOGICAL ENVIRONMENTAL MONITORING PROGRAM SUMMARY
OYSTER CREEK NUCLEAR GENERATING STATION
DECEMBER,1930 THROUGH MAY,1931
SEMI-ANNUAL SUMMARY

SAMPLE TYPE	ANALYSIS	ISOTOPE	NUMBER OF ANALYSES PERFORMED	LLD	INDICATOR-MEAN(N/TOTAL) RANGE	STATION	BACKROUND-MEAN(N/TOTAL) RANGE STATION-MEAN(N/TOTAL) RANGE	STATIONS USED FOR INDICATOR MEAN
AIR PARTICULATE (PCI/M3)	GELI GAMMA	RU-106	104	2.00E+00	< LLD (0 /65)		< LLD (0 /39)	1 2 3 4 5
						5	< LLD (0 /13)	
AIR PARTICULATE (PCI/M3)	GELI GAMMA	CO-57	104	1.50E-01	< LLD (0 /65)		< LLD (0 /39)	1 2 3 4 5
						5	< LLD (0 /13)	
AIR PARTICULATE (PCI/M3)	GELI GAMMA	I-133	1	1.40E+00	< LLD (0 /1)		(. - .)	1
						1	< LLD (0 /1)	
AIR PARTICULATE (PCI/M3)	GELI GAMMA	CS-137	104	2.70E-01	6.80E-03 (1 /65) (6.80E-03 - 6.80E-03)		< LLD (0 /39)	1 2 3 4 5
						3	6.80E-03(1 /13) (6.80E-03 - 6.80E-03)	
PRECIPITATION (NCI/M2)	GROSS BETA-SS		56	9.41E+01	2.24E-01 (25 /35) (4.18E-02 - 1.82E+00)		1.14E-01(16 /21) (2.50E-02 - 3.68E-01)	1 2 3 4 5
						2	4.21E-01(6 /7) (6.28E-02 - 1.82E+00)	
PRECIPITATION (NCI/M2)	GROSS BETA-DS		56	2.33E+02	1.05E+00 (35 /35) (1.53E-01 - 3.61E+00)		8.57E-01(21 /21) (2.36E-01 - 2.61E+00)	1 2 3 4 5
						4	1.59E+00(7 /7) (6.11E-01 - 3.61E+00)	
AIR IODINE (PCI/M3)	IODINE-131		104	8.97E-01	< LLD (0 /65)		< LLD (0 /39)	1 2 3 4 5
						5	< LLD (0 /13)	

TABLE 17
RADIOLOGICAL ENVIRONMENTAL MONITORING PROGRAM SUMMARY
OYSTER CREEK NUCLEAR GENERATING STATION
DECEMBER,1980 THROUGH MAY,1981
SEMI-ANNUAL SUMMARY

SAMPLE TYPE	ANALYSIS	ISOTOPE	NUMBER OF ANALYSES PERFORMED	LLD	INDICATOR-MEAN(N/TOTAL) RANGE	STATION	BACKROUND-MEAN(N/TOTAL) RANGE / STATION-MEAN(N/TOTAL) RANGE	STATIONS USED FOR INDICATOR MEAN
SURFACE WATER (PCI/L)	GROSS ALPHA-SS		53	3.80E-01	3.58E-01 (7 /48) (1.67E-01 - 9.83E-01)		2.29E-01(1 /5) (2.29E-01 - 2.29E-01)	23 24 25 26 27 32 33
						23	9.83E-01(1 /6) (9.83E-01 - 9.83E-01)	
SURFACE WATER (PCI/L)	GROSS ALPHA-DS		53	3.42E+00	2.43E+00 (8 /48) (1.40E+00 - 2.93E+00)		2.29E+00(2 /5) (1.59E+00 - 3.00E+00)	23 24 25 26 27 32 33
						24	2.83E+00(1 /7) (2.83E+00 - 2.83E+00)	
SURFACE WATER (PCI/L)	GROSS BETA-SS		53	4.41E-01	4.75E-01 (21 /48) (1.86E-01 - 1.16E+00)		2.67E-01(3 /5) (1.97E-01 - 3.41E-01)	23 24 25 26 27 32 33
						24	5.81E-01(4 /7) (2.61E-01 - 1.10E+00)	
SURFACE WATER (PCI/L)	GROSS BETA-DS		53	1.11E+01	8.93E+01 (45 /48) (1.51E+00 - 2.48E+02)		1.56E+02(5 /5) (8.08E+01 - 2.13E+02)	23 24 25 26 27 32 33
						32	1.25E+02(7 /7) (8.22E+00 - 2.48E+02)	
SURFACE WATER (MG/L)	CALCIUM BY AA		24	8.00E-02	1.53E+02 (21 /21) (1.50E-01 - 2.60E+02)		1.88E+02(3 /3) (1.23E+02 - 2.60E+02)	23 24 25 26 27 32 33
						24	1.88E+02(3 /3) (1.40E+02 - 2.40E+02)	
SURFACE WATER (PCI/L)	TRITIUM		53	2.11E+02	1.69E+02 (9 /48) (8.22E+01 - 3.71E+02)		< LLD (0 /5)	23 24 25 26 27 32 33
						23	3.06E+02(2 /6) (2.41E+02 - 3.71E+02)	

TABLE 17
RADIOLOGICAL ENVIRONMENTAL MONITORING PROGRAM SUMMARY
OYSTER CREEK NUCLEAR GENERATING STATION
DECEMBER,1980 THROUGH MAY,1981
SEMI-ANNUAL SUMMARY

SAMPLE TYPE	ANALYSIS	ISOTOPE	NUMBER OF ANALYSES PERFORMED	LLD	INDICATOR-MEAN(N/TOTAL) RANGE	STATION	BACKROUND-MEAN(N/TOTAL) RANGE / STATION-MEAN(N/TOTAL) RANGE	STATIONS USED FOR INDICATION MEAN
SURFACE WATER (PCI/L)	TOTAL URANIUM		53	2.84E+00	1.63E+00 (8 /48) (1.16E+00 - 2.41E+00)		1.16E+00(1 /5) (1.16E+00 - 1.16E+00)	23 24 25 26 27 32 33
						23	1.92E+00(2 /6) (1.62E+00 - 2.22E+00)	
SURFACE WATER (PCI/L)	NAI GAMMA	CE-144	91	8.80E+01	< LLD (0 /46)		< LLD (0 /5)	23 24 25 26 27 32 33
						33	< LLD (0 /6)	
SURFACE WATER (PCI/L)	NAI GAMMA	AG-110M	53	8.60E+00	< LLD (0 /48)		< LLD (0 /5)	23 24 25 26 27 32 33
						33	< LLD (0 /7)	
SURFACE WATER (PCI/L)	NAI GAMMA	TE-129M	53	2.30E+02	< LLD (0 /48)		< LLD (0 /5)	23 24 25 26 27 32 33
						33	< LLD (0 /7)	
SURFACE WATER (PCI/L)	NAI GAMMA	MO-99	53	1.40E+04	< LLD (0 /48)		< LLD (0 /5)	23 24 25 26 27 32 33
						33	< LLD (0 /7)	
SURFACE WATER (PCI/L)	NAI GAMMA	ZRNB-95	53	7.80E+00	< LLD (0 /48)		< LLD (0 /5)	23 24 25 26 27 32 33
						33	< LLD (0 /7)	
SURFACE WATER (PCI/L)	NAI GAMMA	CS-134	53	7.90E+00	< LLD (0 /48)		< LLD (0 /5)	23 24 25 26 27 32 33
						33	< LLD (0 /7)	

TABLE 17

RADIOLOGICAL ENVIRONMENTAL MONITORING PROGRAM SUMMARY
OYSTER CREEK NUCLEAR GENERATING STATION
DECEMBER,1980 THROUGH MAY,1981
SEMI-ANNUAL SUMMARY

SAMPLE TYPE	ANALYSIS	ISOTOPE	NUMBER OF ANALYSES PERFORMED	LLD	INDICATOR-MEAN(N/TOTAL) RANGE		BACKROUND-MEAN(N/TOTAL) RANGE		STATIONS USED FOR INDICATOR MEAN
						STATION	STATION-MEAN(N/TOTAL) RANGE		
SURFACE WATER (PCI/L)	NAI GAMMA	CO-58	53	8.80E+00	< LLD	(0 /48)	< LLD	(0 /5)	23 24 25 26 27 32 33
						33	< LLD (0 /7)		
SURFACE WATER (PCI/L)	NAI GAMMA	MN-54	53	8.80E+00	< LLD	(0 /48)	< LLD	(0 /5)	23 24 25 26 27 32 33
						33	< LLD (0 /7)		
SURFACE WATER (PCI/L)	NAI GAMMA	TH-232	53	3.10E+01	< LLD	(0 /48)	< LLD	(0 /5)	23 24 25 26 27 32 33
						33	< LLD (0 /7)		
SURFACE WATER (PCI/L)	NAI GAMMA	FE-59	53	2.20E+01	< LLD	(0 /48)	< LLD	(0 /5)	23 24 25 26 27 32 33
						33	< LLD (0 /7)		
SURFACE WATER (PCI/L)	NAI GAMMA	CS-136	53	6.10E+01	< LLD	(0 /48)	< LLD	(0 /5)	23 24 25 26 27 32 33
						33	< LLD (0 /7)		
SURFACE WATER (PCI/L)	NAI GAMMA	TE-132	53	7.60E+03	< LLD	(0 /48)	< LLD	(0 /5)	23 24 25 26 27 32 33
						33	< LLD (0 /7)		
SURFACE WATER (PCI/L)	NAI GAMMA	ZN-65	53	1.70E+01	< LLD	(0 /48)	< LLD	(0 /5)	23 24 25 26 27 32 33
						33	< LLD (0 /7)		

TABLE 17

RADIOLOGICAL ENVIRONMENTAL MONITORING PROGRAM SUMMARY
OYSTER CREEK NUCLEAR GENERATING STATION
DECEMBER, 1980 THROUGH MAY, 1981
SEMI-ANNUAL SUMMARY

SAMPLE TYPE	ANALYSIS	ISOTOPE	NUMBER OF ANALYSES PERFORMED	LLD	INDICATOR-MEAN(N/TOTAL) RANGE	STATION	BACKGROUND-MEAN(N/TOTAL) RANGE STATION-MEAN(N/TOTAL) RANGE	STATIONS USED FOR INDICATOR MEAN
SURFACE WATER (PCI/L)	NAI GAMMA	CO-60	53	7.80E+00	< LLD (0 /48)		< LLD (0 /5)	23 24 25 26 27 32 33
						33	< LLD (0 /7)	
SURFACE WATER (PCI/L)	NAI GAMMA	K-40	53	1.20E+02	2.44E+02 (33 /48) (1.30E+02 - 3.90E+02)		3.02E+02(5 /5) (1.60E+02 - 4.30E+02)	23 24 25 26 27 32 33
						33	2.77E+02(6 /7) (2.40E+02 - 3.10E+02)	
SURFACE WATER (PCI/L)	NAI GAMMA	BALA-140	53	5.30E+01	< LLD (0 /48)		< LLD (0 /5)	23 24 25 26 27 32 33
						33	< LLD (0 /7)	
SURFACE WATER (PCI/L)	NAI GAMMA	BE-7	7	7.40E+01	< LLD (0 /6)		< LLD (0 /1)	23 24 25 26 27 32
						32	< LLD (0 /1)	
SURFACE WATER (PCI/L)	NAI GAMMA	CR-51	53	1.90E+02	< LLD (0 /48)		< LLD (0 /5)	23 24 25 26 27 32 33
						33	< LLD (0 /7)	
SURFACE WATER (PCI/L)	NAI GAMMA	RA-226	53	1.60E+01	< LLD (0 /48)		< LLD (0 /5)	23 24 25 26 27 32 33
						33	< LLD (0 /7)	
SURFACE WATER (PCI/L)	NAI GAMMA	I-131	53	1.60E+02	< LLD (0 /48)		< LLD (0 /5)	23 24 25 26 27 32 33
						33	< LLD (0 /7)	

TABLE 17

RADIOLOGICAL ENVIRONMENTAL MONITORING PROGRAM SUMMARY
OYSTER CREEK NUCLEAR GENERATING STATION
DECEMBER,1980 THROUGH MAY,1981
SEMI-ANNUAL SUMMARY

SAMPLE TYPE	ANALYSIS	ISOTOPE	NUMBER OF ANALYSES PERFORMED	LLD	INDICATOR-MEAN(N/TOTAL) RANGE	STATION	BACKROUND-MEAN(N/TOTAL) RANGE STATION-MEAN(N/TOTAL) RANGE	STATIONS USED FOR INDICATOR MEAN
SURFACE WATER (PCI/L)	NAI GAMMA	NA-22	53	8.00E+00	< LLD (0 /48)		< LLD (0 /5)	23 24 25 26 27 32 33
						33	< LLD (0 /7)	
SURFACE WATER (PCI/L)	NAI GAMMA	RU-106	53	8.00E+01	< LLD (0 /48)		< LLD (0 /5)	23 24 25 26 27 32 33
						33	< L (0 /7)	
SURFACE WATER (PCI/L)	NAI GAMMA	I-133	53	9.30E+00	< LLD (0 /48)		< LLD (0 /5)	23 24 25 26 27 32 33
						33	< LLD (0 /7)	
SURFACE WATER (PCI/L)	NAI GAMMA	CS-137	53	7.80E+00	< LLD (0 /48)		< LLD (0 /5)	23 24 25 26 27 32 33
						33	< LLD (0 /7)	
SURFACE WATER (PCI/L)	RADIUM-226		53	2.15E-01	4.24E-01 (35 /48) (1.31E-01 - 1.33E+00)		1.43E-01(5 /5) (9.27E-02 - 2.42E-01)	23 24 25 26 27 32 33
						26	7.68E-01(7 /7) (5.00E-01 - 1.06E+00)	
SURFACE WATER (PCI/L)	RADIUM-228		53	5.41E+00	3.52E-01 (2 /48) (3.24E-01 - 3.81E-01)		2.05E+01(1 /5) (2.05E+01 - 2.05E+01)	23 24 25 26 27 32 33
						33	3.81E-01(1 /7) (3.81E-01 - 3.81E-01)	
SURFACE WATER (PCI/L)	STRONTIUM-90		53	2.37E+00	8.30E-01 (17 /48) (2.47E-01 - 3.45E+00)		< LLD (0 /5)	23 24 25 26 27 32 33
						32	1.94E+00(2 /7) (4.29E-01 - 3.45E+00)	

TABLE 17

RADIOLOGICAL ENVIRONMENTAL MONITORING PROGRAM SUMMARY
OYSTER CREEK NUCLEAR GENERATING STATION
DECEMBER,1980 THROUGH MAY,1981
SEMI-ANNUAL SUMMARY

SAMPLE TYPE	ANALYSIS	ISOTOPE	NUMBER OF ANALYSES PERFORMED	LLD	INDICATOR-MEAN(N/TOTAL) RANGE	STATION	BACKROUND-MEAN(N/TOTAL) RANGE STATION-MEAN(N/TOTAL) RANGE	STATIONS USED FOR INDICATOR MEAN
WELL WATER (PCI/L)	GROSS ALPHA-SS		42	2.90E-01	6.34E-01 (3 /42) (1.98E-01 - 1.50E+00)		(. - .) (. /.)	1 18 19 20 21 22
						22	8.72E-01(2 /7) (2.44E-01 - 1.50E+00)	
WELL WATER (PCI/L)	GROSS ALPHA-DS		42	9.70E+00	2.21E+00 (17 /42) (8.82E-01 - 5.21E+00)		(. - .) (. /.)	1 18 19 20 21 22
						21	4.88E+00(2 /7) (4.88E+00 - 4.88E+00)	
WELL WATER (PCI/L)	GROSS BETA-SS		42	5.06E-01	8.71E-01 (3 /42) (8.46E-01 - 8.92E-01)		(. - .) (. /.)	1 18 19 20 21 22
						18	8.92E-01(1 /7) (8.92E-01 - 8.92E-01)	
WELL WATER (PCI/L)	GROSS BETA-DS		42	7.71E-01	2.89E+00 (42 /42) (3.68E-01 - 8.92E+00)		(. - .) (. /.)	1 18 19 20 21 22
						20	5.76E+00(7 /7) (2.67E+00 - 7.58E+00)	
WELL WATER (PCI/L)	POTASSIUM-40		18	8.60E-01	2.31E+00 (18 /18) (4.94E-01 - 7.28E+00)		(. - .) (. /.)	1 18 19 20 21 22
						20	6.33E+00(3 /3) (5.49E+00 - 7.28E+00)	
WELL WATER (PCI/L)	TRITIUM		18	2.00E+02	1.95E+02 (5 /18) (1.24E+02 - 3.65E+02)		(. - .) (. /.)	1 18 19 20 21 22
						20	2.07E+02(3 /3) (1.24E+02 - 3.65E+02)	

TABLE 17

RADIOLOGICAL ENVIRONMENTAL MONITORING PROGRAM SUMMARY
OYSTER CREEK NUCLEAR GENERATING STATION
DECEMBER,1980 THROUGH MAY,1981
SEMI-ANNUAL SUMMARY

SAMPLE TYPE	ANALYSIS	ISOTOPE	NUMBER OF ANALYSES PERFORMED	LLD	INDICATOR-MEAN(N/TOTAL) RANGE	STATION	BACKGROUND-MEAN(N/TOTAL) RANGE STATION-MEAN(N/TOTAL) RANGE	STATIONS USED FOR INDICATOR MEAN
WELL WATER (PCI/L)	TOTAL URANIUM		18	5.48E-01	5.06E-01 (1 /18) (5.06E-01 - 5.06E-01)		. (. /.) (. - .)	1 18 19 20 21 22
						22	5.06E-01(1 /3) (5.06E-01 - 5.06E-01)	
WELL WATER (PCI/L)	RADIUM-226		18	1.99E-01	6.98E-01 (15 /18) (1.45E-01 - 2.09E+00)		. (. /.) (. - .)	1 18 19 20 21 22
						21	1.25E+00(3 /3) (3.31E-01 - 2.09E+00)	
WELL WATER (PCI/L)	RADIUM-228		18	9.08E+00	1.12E+00 (6 /18) (9.62E-01 - 1.61E+00)		. (. /.) (. - .)	1 18 19 20 21 22
						20	1.29E+00(2 /3) (9.62E-01 - 1.61E+00)	
CLAMS (PCI/GM(WET))	GROSS ALPHA		21	2.55E-01	1.89E-01 (17 /17) (4.84E-02 - 6.30E-01)		1.41E-01(4 /4) (7.18E-03 - 3.40E-01)	23 24 25
						25	1.98E-01(6 /6) (4.84E-02 - 6.30E-01)	
CLAMS (PCI/GM(WET))	GROSS BETA		21	5.08E-02	1.62E+00 (17 /17) (4.51E-01 - 3.37E+00)		1.21E+00(4 /4) (1.19E-01 - 2.22E+00)	23 24 25
						23	1.77E+00(5 /5) (4.51E-01 - 3.08E+00)	
CLAMS (MG/GM(WET))	CALCIUM BY AA		8	1.39E+00	2.59E+03 (6 /6) (1.81E+03 - 3.14E+03)		2.38E+03(2 /2) (2.37E+03 - 2.39E+03)	23 24 25
						25	2.82E+03(2 /2) (2.59E+03 - 3.06E+03)	

TABLE 17

RADIOLOGICAL ENVIRONMENTAL MONITORING PROGRAM SUMMARY
OYSTER CREEK NUCLEAR GENERATING STATION
DECEMBER,1980 THROUGH MAY,1981
SEMI-ANNUAL SUMMARY

SAMPLE TYPE	ANALYSIS	ISOTOPE	NUMBER OF ANALYSES PERFORMED	LLD	INDICATOR-MEAN(N/TOTAL) RANGE	STATION	STATION-MEAN(N/TOTAL) RANGE	BACKROUND-MEAN(N/TOTAL) RANGE	STATIONS USED FOR INDICATOR MEAN
CLAMS (PCI/GM(WET))	NAI GAMMA	CE-144	12	1.10E-01	< LLD (0 /9)			< LLD (0 /3)	23 24 25
						25	< LLD (0 /3)		
CLAMS (PCI/GM(WET))	NAI GAMMA	AG-110M	12	3.20E-02	< LLD (0 /9)			< LLD (0 /3)	23 24 25
						25	< LLD (0 /3)		
CLAMS (PCI/GM(WET))	NAI GAMMA	TE-129M	12	8.60E-01	< LLD (0 /9)			< LLD (0 /3)	23 24 25
						25	< LLD (0 /3)		
CLAMS (PCI/GM(WET))	NAI GAMMA	MO-99	12	3.30E+01	< LLD (0 /9)			< LLD (0 /3)	23 24 25
						25	< LLD (0 /3)		
CLAMS (PCI/GM(WET))	NAI GAMMA	ZRNB-95	12	3.10E-02	< LLD (0 /9)			< LLD (0 /3)	23 24 25
						25	< LLD (0 /3)		
CLAMS (PCI/GM(WET))	NAI GAMMA	CS-134	12	3.20E-02	< LLD (0 /9)			< LLD (0 /3)	23 24 25
						25	< LLD (0 /3)		
CLAMS (PCI/GM(WET))	NAI GAMMA	CO-58	12	3.60E-02	< LLD (0 /9)			< LLD (0 /3)	23 24 25
						25	< LLD (0 /3)		

TABLE 17

RADIOLOGICAL ENVIRONMENTAL MONITORING PROGRAM SUMMARY
OYSTER CREEK NUCLEAR GENERATING STATION
DECEMBER,1980 THROUGH MAY,1981
SEMI-ANNUAL SUMMARY

SAMPLE TYPE	ANALYSIS	ISOTOPE	NUMBER OF ANALYSES PERFORMED	LLD	INDICATOR-MEAN(N/TOTAL) RANGE	STATION	BACKGROUND-MEAN(N/TOTAL) RANGE STATION-MEAN(N/TOTAL) RANGE	STATIONS USED FOR INDICATOR MEAN
CLAMS (PCI/GM(WET))	NAI GAMMA	MN-54	12	3.20E-02	< LLD (0 /9)		< LLD (0 /3)	23 24 25
						25	< LLD (0 /3)	
CLAMS (PCI/GM(WET))	NAI GAMMA	TH-232	12	1.40E-01	< LLD (0 /9)		< LLD (0 /3)	23 24 25
						25	< LLD (0 /3)	
CLAMS (PCI/GM(WET))	NAI GAMMA	FE-59	12	9.90E-02	< LLD (0 /9)		< LLD (0 /3)	23 24 25
						25	< LLD (0 /3)	
CLAMS (PCI/GM(WET))	NAI GAMMA	CS-136	12	1.60E-01	< LLD (0 /9)		< LLD (0 /3)	23 24 25
						25	< LLD (0 /3)	
CLAMS (PCI/GM(WET))	NAI GAMMA	TE-132	12	1.30E+00	< LLD (0 /9)		< LLD (0 /3)	23 24 25
						25	< LLD (0 /3)	
CLAMS (PCI/GM(WET))	NAI GAMMA	ZN-65	12	9.70E-02	< LLD (0 /9)		< LLD (0 /3)	23 24 25
						25	< LLD (0 /3)	
CLAMS (PCI/GM(WET))	NAI GAMMA	CO-60	12	4.70E-02	5.70E-02 (3 /9) (3.20E-02 - 1.00E-01)		1.70E-02(1 /3) (1.70E-02 - 1.70E-02)	23 24 25
						25	1.00E-01(1 /3) (1.00E-01 - 1.00E-01)	

TABLE 17

RADIOLOGICAL ENVIRONMENTAL MONITORING PROGRAM SUMMARY
OYSTER CREEK NUCLEAR GENERATING STATION
DECEMBER,1980 THROUGH MAY,1981
SEMI-ANNUAL SUMMARY

SAMPLE TYPE	ANALYSIS	ISOTOPE	NUMBER OF ANALYSES PERFORMED	LLD	INDICATOR-MEAN(N/TOTAL) RANGE	STATION	BACKGROUND-MEAN(N/TOTAL) RANGE STATION-MEAN(N/TOTAL) RANGE	STATIONS USED FOR INDICATOR MEAN
CLAMS (PCI/GM(WET))	NAI GAMMA	K-40	12	6.20E-01	1.73E+00 (9 /9) (7.70E-01 - 4.30E+00)		2.10E+00(3 /3) (1.50E+00 - 2.80E+00)	23 24 25
						23	2.33E+00(3 /3) (1.20E+00 - 4.30E+00)	
CLAMS (PCI/GM(WET))	NAI GAMMA	BALA-140	12	1.30E-01	< LLD (0 /9)		< LLD (0 /3)	23 24 25
						25	< LLD (0 /3)	
CLAMS (PCI/GM(WET))	NAI GAMMA	BE-7	4	1.10E-01	< LLD (0 /3)		< LLD (0 /1)	23 24 25
						25	< LLD (0 /1)	
CLAMS (PCI/GM(WET))	NAI GAMMA	CR-51	12	2.30E-01	< LLD (0 /9)		< LLD (0 /3)	23 24 25
						25	< LLD (0 /3)	
CLAMS (PCI/GM(WET))	NAI GAMMA	RA-226	12	6.20E-02	< LLD (0 /9)		< LLD (0 /3)	23 24 25
						25	< LLD (0 /3)	
CLAMS (PCI/GM(WET))	NAI GAMMA	I-131	12	4.00E-01	< LLD (0 /9)		< LLD (0 /3)	23 24 25
						25	< LLD (0 /3)	
CLAMS (PCI/GM(WET))	NAI GAMMA	NA-22	12	4.70E-02	< LLD (0 /9)		< LLD (0 /3)	23 24 25
						25	< LLD (0 /3)	

TABLE 17

RADIOLOGICAL ENVIRONMENTAL MONITORING PROGRAM SUMMARY
OYSTER CREEK NUCLEAR GENERATING STATION
DECEMBER,1980 THROUGH MAY,1981
SEMI-ANNUAL SUMMARY

SAMPLE TYPE	ANALYSIS	ISOTOPE	NUMBER OF ANALYSES PERFORMED	LLD	INDICATOR-MEAN(N/TOTAL) RANGE	STATION	BACKROUND-MEAN(N/TOTAL) RANGE STATION-MEAN(N/TOTAL) RANGE	STATIONS USED FOR INDICATOR MEAN
CLAMS (PCI/GM(WET))	NAI GAMMA	RU-106	12	3.20E-01	< LLD (0 /9)		< LLD (0 /3)	23 24 25
						25	< LLD (0 /3)	
CLAMS (PCI/GM(WET))	NAI GAMMA	I-133	12	3.10E-02	< LLD (0 /9)		< LLD (0 /3)	23 24 25
						25	< LLD (0 /3)	
CLAMS (PCI/GM(WET))	NAI GAMMA	CS-137	12	4.70E-02	< LLD (0 /9)		< LLD (0 /3)	23 24 25
						25	< LLD (0 /3)	
CLAMS (PCI/GM(WET))	STRONTIUM-90		12	1.28E-01	< LLD (0 /9)		< LLD (0 /3)	23 24 25
						25	< LLD (0 /3)	
SOIL (PCI/GM(DRY))	GROSS BETA		35	1.16E+00	6.97E+00 (35 /35) (1.52E+00 - 2.41E+01)		. (. /.) (. - .)	1 2 3 4 5
						5	1.28E+01(7 /7) (6.95E+00 - 2.41E+01)	
SOIL (PCI/GM(DRY))	GELI GAMMA	CE-144	1	6.50E-01	< LLD (0 /1)		. (. /.) (. - .)	5
						5	< LLD (0 /1)	
SOIL (PCI/GM(DRY))	GELI GAMMA	AG-110M	1	2.00E-01	< LLD (0 /1)		. (. /.) (. - .)	5
						5	< LLD (0 /1)	

TABLE 17

RADIOLOGICAL ENVIRONMENTAL MONITORING PROGRAM SUMMARY
OYSTER CREEK NUCLEAR GENERATING STATION
DECEMBER,1980 THROUGH MAY,1981
SEMI-ANNUAL SUMMARY

SAMPLE TYPE	ANALYSIS	ISOTOPE	NUMBER OF ANALYSES PERFORMED	LLD	INDICATOR-MEAN(N/TOTAL) RANGE	STATION	BACKROUND-MEAN(N/TOTAL) RANGE STATION-MEAN(N/TOTAL) RANGE	STATIONS USED FOR INDICATOR MEAN
SOIL (PCI/GM(DRY))	GELI GAMMA	TE-129M	1	2.30E+01	< LLD (0 /1)		. (. /.) (. - .)	5
						5	< LLD (0 /1)	
SOIL (PCI/GM(DRY))	GELI GAMMA	CS-134	1	1.60E-01	< LLD (0 /1)		. (. /.) (. - .)	5
						5	< LLD (0 /1)	
SOIL (PCI/GM(DRY))	GELI GAMMA	CO-58	1	2.90E-01	< LLD (0 /1)		. (. /.) (. - .)	5
						5	< LLD (0 /1)	
SOIL (PCI/GM(DRY))	GELI GAMMA	MN-54	1	1.50E-01	< LLD (0 /1)		. (. /.) (. - .)	5
						5	< LLD (0 /1)	
SOIL (PCI/GM(DRY))	GELI GAMMA	TH-232	1	4.90E-01	9.50E-01 (1 /1) (9.50E-01 - 9.50E-01)		. (. /.) (. - .)	5
						5	9.50E-01(1 /1) (9.50E-01 - 9.50E-01)	
SOIL (PCI/GM(DRY))	GELI GAMMA	FE-59	1	9.10E-01	< LLD (0 /1)		. (. /.) (. - .)	5
						5	< LLD (0 /1)	
SOIL (PCI/GM(DRY))	GELI GAMMA	CS-136	1	1.40E+01	< LLD (0 /1)		. (. /.) (. - .)	5
						5	< LLD (0 /1)	

TABLE 17

RADIOLOGICAL ENVIRONMENTAL MONITORING PROGRAM SUMMARY
OYSTER CREEK NUCLEAR GENERATING STATION
DECEMBER,1980 THROUGH MAY,1981
SEMI-ANNUAL SUMMARY

SAMPLE TYPE	ANALYSIS	ISOTOPE	NUMBER OF ANALYSES PERFORMED	LLD	INDICATOR-MEAN(N/TOTAL) RANGE	STATION	BACKGROUND-MEAN(N/TOTAL) RANGE STATION-MEAN(N/TOTAL) RANGE	STATIONS USED FOR INDICATOR MEAN
SOIL (PCI/GM(DRY))	GELI GAMMA	ZN-65	1	4.30E-01	< LLD (0 /1)		. (. /.) (. - .)	5
						5	< LLD (0 /1)	
SOIL (PCI/GM(DRY))	GELI GAMMA	CO-60	1	1.40E-01	< LLD (0 /1)		. (. /.) (. - .)	5
						5	< LLD (0 /1)	
SOIL (PCI/GM(DRY))	GELI GAMMA	K-40	1	9.70E-01	1.90E+01 (1 /1) (1.90E+01 - 1.90E+01)		. (. /.) (. - .)	5
						5	1.90E+01(1 /1) (1.90E+01 - 1.90E+01)	
SOIL (PCI/GM(DRY))	GELI GAMMA	BE-7	1	3.30E+00	< LLD (0 /1)		. (. /.) (. - .)	5
						5	< LLD (0 /1)	
SOIL (PCI/GM(DRY))	GELI GAMMA	ZR-95	1	6.10E-01	< LLD (0 /1)		. (. /.) (. - .)	5
						5	< LLD (0 /1)	
SOIL (PCI/GM(DRY))	GELI GAMMA	NB-95	1	7.80E-01	< LLD (0 /1)		. (. /.) (. - .)	5
						5	< LLD (0 /1)	
SOIL (PCI/GM(DRY))	GELI GAMMA	SB-125	1	3.90E-01	< LLD (0 /1)		. (. /.) (. - .)	5
						5	< LLD (0 /1)	

TABLE 17

RADIOLOGICAL ENVIRONMENTAL MONITORING PROGRAM SUMMARY
OYSTER CREEK NUCLEAR GENERATING STATION
DECEMBER,1980 THROUGH MAY,1981
SEMI-ANNUAL SUMMARY

SAMPLE TYPE	ANALYSIS	ISOTOPE	NUMBER OF ANALYSES PERFORMED	LLD	INDICATOR-MEAN(N/TOTAL) RANGE	STATION	BACKROUND-MEAN(N/TOTAL) RANGE STATION-MEAN(N/TOTAL) RANGE	STATIONS USED FOR INDICATOR MEAN
SOIL (PCI/GM(DRY))	GELI GAMMA	CE-141	1	9.60E-01	< LLD (0 /1)		(. - .) (. /.)	5
						5	< LLD (0 /1)	
SOIL (PCI/GM(DRY))	GELI GAMMA	RU-103	1	6.20E-01	< LLD (0 /1)		(. - .) (. /.)	5
						5	< LLD (0 /1)	
SOIL (PCI/GM(DRY))	GELI GAMMA	CR-51	1	9.80E+00	< LLD (0 /1)		(. - .) (. /.)	5
						5	< LLD (0 /1)	
SOIL (PCI/GM(DRY))	GELI GAMMA	BA-140	1	6.50E+01	< LLD (0 /1)		(. - .) (. /.)	5
						5	< LLD (0 /1)	
SOIL (PCI/GM(DRY))	GELI GAMMA	LA-140	1	1.80E+01	< LLD (0 /1)		(. - .) (. /.)	5
						5	< LLD (0 /1)	
SOIL (PCI/GM(DRY))	GELI GAMMA	RA-226	1	8.70E-01	9.00E-01 (1 /1) (9.00E-01 - 9.00E-01)		(. - .) (. /.)	5
						5	9.00E-01(1 /1) (9.00E-01 - 9.00E-01)	
SOIL (PCI/GM(DRY))	GELI GAMMA	RU-106	1	1.30E+00	< LLD (0 /1)		(. - .) (. /.)	5
						5	< LLD (0 /1)	

TABLE 17

RADIOLOGICAL ENVIRONMENTAL MONITORING PROGRAM SUMMARY
OYSTER CREEK NUCLEAR GENERATING STATION
DECEMBER,1980 THROUGH MAY,1981
SEMI-ANNUAL SUMMARY

SAMPLE TYPE	ANALYSIS	ISOTOPE	NUMBER OF ANALYSES PERFORMED	LLD	INDICATOR-MEAN(N/TOTAL) RANGE	STATION	BACKGROUND-MEAN(N/TOTAL) RANGE STATION-MEAN(N/TOTAL) RANGE	STATIONS USED FOR INDICATOR MEAN
SOIL (PCI/GM(DRY))	GELI GAMMA	CO-57	1	8.48E-02	< LLD (0 /1)		. (. /.) (. - .)	5
						5	< LLD (0 /1)	
SOIL (PCI/GM(DRY))	GELI GAMMA	CS-137	1	1.20E-01	3.20E-01 (1 /1) (3.20E-01 - 3.20E-01)		. (. /.) (. - .)	5
						5	3.20E-01(1 /1) (3.20E-01 - 3.20E-01)	
PASTURE (PCI/GM(WET))	GROSS BETA		9	1.56E-01	1.06E+01 (9 /9) (4.25E+00 - 2.74E+01)		. (. /.) (. - .)	28 29 30
						30	1.46E+01(3 /3) (7.85E+00 - 2.74E+01)	
PASTURE (UG/GM(WET))	CALCIUM BY AA		9	8.87E+00	5.88E+03 (9 /9) (1.12E+03 - 9.45E+03)		. (. /.) (. - .)	28 29 30
						30	5.15E+03(3 /3) (1.14E+03 - 9.45E+03)	
PASTURE (PCI/GM(WET))	STRONTIUM-90		9	3.56E-02	2.09E-01 (9 /9) (1.54E-02 - 3.56E-01)		. (. /.) (. - .)	28 29 30
						29	2.97E-01(3 /3) (1.81E-01 - 3.56E-01)	
SILT (PCI/GM(DRY))	GROSS ALPHA		24	4.85E+00	6.05E+00 (12 /21) (2.86E+00 - 1.05E+01)		2.60E+00(1 /3) (2.60E+00 - 2.60E+00)	23 24 25 26 27 32 33
						32	7.51E+00(2 /3) (7.36E+00 - 7.66E+00)	

TABLE 17

RADIOLOGICAL ENVIRONMENTAL MONITORING PROGRAM SUMMARY
OYSTER CREEK NUCLEAR GENERATING STATION
DECEMBER,1980 THROUGH MAY,1981
SEMI-ANNUAL SUMMARY

SAMPLE TYPE	ANALYSIS	ISOTOPE	NUMBER OF ANALYSES PERFORMED	LLD	INDICATOR-MEAN(N/TOTAL) RANGE	STATION	BACKGROUND-MEAN(N/TOTAL) RANGE / STATION-MEAN(N/TOTAL) RANGE	STATIONS USED FOR INDICATOR MEAN
SILT (PCI/GM(DRY))	GROSS BETA		24	1.31E+00	6.82E+00 (21 /21) (1.04E+00 - 1.74E+01)		1.07E+01(3 /3) (7.86E+00 - 1.34E+01)	23 24 25 26 27 32 33
						33	1.58E+01(3 /3) (1.47E+01 - 1.74E+01)	
SILT (PCI/GM(DRY))	GELI GAMMA	CE-144	39	6.60E-01	< LLD (0 /34)		< LLD (0 /5)	23 24 25 32 33
						33	< LLD (0 /7)	
SILT (PCI/GM(DRY))	GELI GAMMA	AG-110M	39	1.50E-01	< LLD (0 /34)		< LLD (0 /5)	23 24 25 32 33
						33	< LLD (0 /7)	
SILT (PCI/GM(DRY))	GELI GAMMA	TE-129M	39	7.70E+00	< LLD (0 /34)		< LLD (0 /5)	23 24 25 32 33
						33	< LLD (0 /7)	
SILT (PCI/GM(DRY))	GELI GAMMA	MO-99	25	1.40E+01	< LLD (0 /22)		< LLD (0 /3)	23 24 25 32 33
						33	< LLD (0 /1)	
SILT (PCI/GM(DRY))	GELI GAMMA	CS-134	39	1.20E-01	< LLD (0 /34)		< LLD (0 /5)	23 24 25 32 33
						33	< LLD (0 /7)	
SILT (PCI/GM(DRY))	GELI GAMMA	CO-58	39	1.70E-01	< LLD (0 /34)		< LLD (0 /5)	23 24 25 32 33
						33	< LLD (0 /7)	

TABLE 17

RADIOLOGICAL ENVIRONMENTAL MONITORING PROGRAM SUMMARY
OYSTER CREEK NUCLEAR GENERATING STATION
DECEMBER,1980 THROUGH MAY,1981
SEMI-ANNUAL SUMMARY

SAMPLE TYPE	ANALYSIS	ISOTOPE	NUMBER OF ANALYSES PERFORMED	LLD	INDICATOR-MEAN(N/TOTAL) RANGE	STATION	BACKROUND-MEAN(N/TOTAL) RANGE STATION-MEAN(N/TOTAL) RANGE	STATIONS USED FOR INDICATOR MEAN
SILT (PCI/GM(DRY))	GELI GAMMA	MN-54	39	1.40E-01	1.11E-01 (5 /34) (4.80E-02 - 1.80E-01)		< LLD (0 /5)	23 24 25 32 33
						33	1.26E-01(4 /7) (7.70E-02 - 1.80E-01)	
SILT (PCI/GM(DRY))	GELI GAMMA	TH-232	39	4.50E-01	4.27E-01 (21 /34) (1.80E-01 - 8.70E-01)		4.87E-01(4 /5) (3.50E-01 - 6.90E-01)	23 24 25 32 33
						33	6.20E-01(3 /7) (5.30E-01 - 7.70E-01)	
SILT (PCI/GM(DRY))	GELI GAMMA	FE-59	39	4.40E-01	< LLD (0 /34)		< LLD (0 /5)	23 24 25 32 33
						33	< LLD (0 /7)	
SILT (PCI/GM(DRY))	GELI GAMMA	CS-136	39	1.00E+00	< LLD (0 /34)		< LLD (0 /5)	23 24 25 32 33
						33	< LLD (0 /7)	
SILT (PCI/GM(DRY))	GELI GAMMA	ZN-65	39	3.10E-01	< LLD (0 /34)		< LLD (0 /5)	23 24 25 32 33
						33	< LLD (0 /7)	
SILT (PCI/GM(DRY))	GELI GAMMA	CO-60	39	1.70E-01	5.51E-01 (22 /34) (3.20E-02 - 2.10E+00)		5.40E-01(1 /5) (5.40E-01 - 5.40E-01)	23 24 25 32 33
						33	1.25E+00(7 /7) (8.50E-01 - 2.10E+00)	
SILT (PCI/GM(DRY))	GELI GAMMA	K-40	39	1.20E+00	5.48E+00 (34 /34) (5.20E-01 - 1.40E+01)		9.54E+00(5 /5) (7.10E+00 - 1.10E+01)	23 24 25 32 33
						33	1.01E+01(7 /7) (9.50E+00 - 1.30E+01)	

TABLE 17

RADIOLOGICAL ENVIRONMENTAL MONITORING PROGRAM SUMMARY
OYSTER CREEK NUCLEAR GENERATING STATION
DECEMBER,1980 THROUGH MAY,1981
SEMI-ANNUAL SUMMARY

SAMPLE TYPE	ANALYSIS	ISOTOPE	NUMBER OF ANALYSES PERFORMED	LLD	INDICATOR-MEAN(N/TOTAL) RANGE	STATION	BACKROUND-MEAN(N/TOTAL) RANGE STATION-MEAN(N/TOTAL) RANGE	STATIONS USED FOR INDICATOR MEAN
SILT (PCI/GM(DRY))	GELI GAMMA	BE-7	39	1.40E+00	6.60E-01 (1 /34) (6.60E-01 - 6.60E-01)		< LLD (0 /5)	23 24 25 32 33
						33	6.60E-01(1 /7) (6.60E-01 - 6.60E-01)	
SILT (PCI/GM(DRY))	GELI GAMMA	ZR-95	39	3.40E-01	< LLD (0 /34)		< LLD (0 /5)	23 24 25 32 33
						33	< LLD (0 /7)	
SILT (PCI/GM(DRY))	GELI GAMMA	NB-95	39	2.60E-01	1.66E-01 (16 /34) (4.50E-02 - 4.40E-01)		1.17E-01(3 /5) (5.80E-02 - 1.70E-01)	23 24 25 32 33
						33	2.30E-01(3 /7) (1.20E-01 - 4.40E-01)	
SILT (PCI/GM(DRY))	GELI GAMMA	SB-125	39	3.00E-01	< LLD (0 /34)		< LLD (0 /5)	23 24 25 32 33
						33	< LLD (0 /7)	
SILT (PCI/GM(DRY))	GELI GAMMA	CE-141	39	3.00E-01	< LLD (0 /34)		< LLD (0 /5)	23 24 25 32 33
						33	< LLD (0 /7)	
SILT (PCI/GM(DRY))	GELI GAMMA	RU-103	39	2.00E-01	< LLD (0 /34)		< LLD (0 /5)	23 24 25 32 33
						33	< LLD (0 /7)	
SILT (PCI/GM(DRY))	GELI GAMMA	CR-51	39	2.00E+00	< LLD (0 /34)		< LLD (0 /5)	23 24 25 32 33
						33	< LLD (0 /7)	

TABLE 17

RADIOLOGICAL ENVIRONMENTAL MONITORING PROGRAM SUMMARY
OYSTER CREEK NUCLEAR GENERATING STATION
DECEMBER,1980 THROUGH MAY,1981
SEMI-ANNUAL SUMMARY

SAMPLE TYPE	ANALYSIS	ISOTOPE	NUMBER OF ANALYSES PERFORMED	LLD	INDICATOR-MEAN(N/TOTAL) RANGE	STATION	BACKROUND-MEAN(N/TOTAL) RANGE STATION-MEAN(N/TOTAL) RANGE	STATIONS USED FOR INDICATOR MEAN
SILT (PCI/GM(DRY))	GELI GAMMA	BA-140	39	4.10E+00	< LLD (0 /34)		< LLD (0 /5)	23 24 25 32 33
						33	< LLD (0 /7)	
SILT (PCI/GM(DRY))	GELI GAMMA	LA-140	39	1.80E+00	< LLD (0 /34)		< LLD (0 /5)	23 24 25 32 33
						33	< LLD (0 /7)	
SILT (PCI/GM(DRY))	GELI GAMMA	RA-226	39	2.70E-01	3.43E-01 (32 /34) (1.80E-01 - 5.90E-01)		3.22E-01(5 /5) (3.00E-01 - 3.90E-01)	23 24 25 32 33
						33	4.26E-01(5 /7) (2.80E-01 - 5.20E-01)	
SILT (PCI/GM(DRY))	GELI GAMMA	I-131	39	4.10E+00	< LLD (0 /34)		< LLD (0 /5)	23 24 25 32 33
						33	< LLD (0 /7)	
SILT (PCI/GM(DRY))	GELI GAMMA	NP-239	9	2.90E+01	< LLD (0 /7)		< LLD (0 /2)	23 24 25 32
						32	< LLD (0 /1)	
SILT (PCI/GM(DRY))	GELI GAMMA	RU-106	39	1.00E+00	< LLD (0 /34)		< LLD (0 /5)	23 24 25 32 33
						33	< LLD (0 /7)	
SILT (PCI/GM(DRY))	GELI GAMMA	CO-57	39	8.10E-02	< LLD (0 /34)		< LLD (0 /5)	23 24 25 32 33
						33	< LLD (0 /7)	

TABLE 17

RADIOLOGICAL ENVIRONMENTAL MONITORING PROGRAM SUMMARY
OYSTER CREEK NUCLEAR GENERATING STATION
DECEMBER,1980 THROUGH MAY,1981
SEMI-ANNUAL SUMMARY

SAMPLE TYPE	ANALYSIS	ISOTOPE	NUMBER OF ANALYSES PERFORMED	LLD	INDICATOR-MEAN(N/TOTAL) RANGE	STATION	BACKROUND-MEAN(N/TOTAL) RANGE STATION-MEAN(N/TOTAL) RANGE	STATIONS USED FOR INDICATOR MEAN
SILT (PCI/GM(DRY))	GELI GAMMA	CS-137	39	1.40E-01	1.92E-01 (12 /34) (7.40E-02 - 2.80E-01)		8.60E-02(4 /5) (5.10E-02 - 2.00E-01)	23 24 25 32 33
						33	2.17E-01(7 /7) (1.40E-01 - 2.80E-01)	

TABLE 18
RADIOLOGICAL ENVIRONMENTAL MONITORING PROGRAM SUMMARY
OYSTER CREEK NUCLEAR GENERATING STATION
DECEMBER,1980 THROUGH FEBRUARY,1981
FIRST QUARTER SUMMARY

SAMPLE TYPE	ANALYSIS	ISOTOPE	NUMBER OF ANALYSES PERFORMED	LLD	INDICATOR-MEAN(N/TOTAL) RANGE	BACKROUND-MEAN(N/TOTAL) RANGE	STATIONS USED FOR INDICATOR MEAN
VEGETATION (PCI/GM(WET))	GROSS BETA		15	4.87E-02	3.54E+00 (15 /15) (6.25E-01 - 9.08E+00)	(. - .)	1 2 3 4 5
AIR PARTICULATE (PCI/M3)	GROSS ALPHA		8	9.49E-04	1.11E-03 (5 /5) (8.71E-04 - 1.40E-03)	1.19E-03(2 /3) (8.38E-04 - 1.55E-03)	1 2 3 4 5
AIR PARTICULATE (PCI/M3)	GROSS BETA		48	9.19E-03	6.29E-02 (30 /30) (3.42E-02 - 1.16E-01)	5.48E-02(18 /18) (2.55E-02 - 9.44E-02)	1 2 3 4 5
AIR PARTICULATE (PCI/M3)	GELI GAMMA	CE-144	48	1.80E-01	< LLD (0 /30)	< LLD (0 /18)	1 2 3 4 5
AIR PARTICULATE (PCI/M3)	GELI GAMMA	AG-110M	48	8.50E-02	< LLD (0 /30)	< LLD (0 /18)	1 2 3 4 5
AIR PARTICULATE (PCI/M3)	GELI GAMMA	TE-129M	48	1.40E+00	< LLD (0 /30)	< LLD (0 /18)	1 2 3 4 5
AIR PARTICULATE (PCI/M3)	GELI GAMMA	MO-99	25	1.70E+00	< LLD (0 /19)	< LLD (0 /6)	1 2 3 4 5
AIR PARTICULATE (PCI/M3)	GELI GAMMA	CS-134	48	2.60E-02	< LLD (0 /30)	< LLD (0 /18)	1 2 3 4 5
AIR PARTICULATE (PCI/M3)	GELI GAMMA	CO-58	48	3.30E-02	< LLD (0 /30)	< LLD (0 /18)	1 2 3 4 5
AIR PARTICULATE (PCI/M3)	GELI GAMMA	MN-54	48	2.60E-02	< LLD (0 /30)	< LLD (0 /18)	1 2 3 4 5
AIR PARTICULATE (PCI/M3)	GELI GAMMA	TH-232	48	8.90E-02	< LLD (0 /30)	< LLD (0 /18)	1 2 3 4 5
AIR PARTICULATE (PCI/M3)	GELI GAMMA	FE-59	48	8.90E-02	< LLD (0 /30)	< LLD (0 /18)	1 2 3 4 5

TABLE 18
RADIOLOGICAL ENVIRONMENTAL MONITORING PROGRAM SUMMARY
OYSTER CREEK NUCLEAR GENERATING STATION
DECEMBER,1980 THROUGH FEBRUARY,1981
FIRST QUARTER SUMMARY

SAMPLE TYPE	ANALYSIS	ISOTOPE	NUMBER OF ANALYSES PERFORMED	LLD	INDICATOR-MEAN(N/TOTAL) RANGE	BACKROUND-MEAN(N/TOTAL) RANGE	STATIONS USED FOR INDICATOR MEAN
AIR PARTICULATE (PCI/M3)	GELI GAMMA	CS-136	48	1.10E-01	< LLD (0 /30)	< LLD (0 /18)	1 2 3 4 5
AIR PARTICULATE (PCI/M3)	GELI GAMMA	ZN-65	48	6.80E-02	< LLD (0 /30)	< LLD (0 /18)	1 2 3 4 5
AIR PARTICULATE (PCI/M3)	GELI GAMMA	CO-60	48	3.50E-02	< LLD (0 /30)	< LLD (0 /18)	1 2 3 4 5
AIR PARTICULATE (PCI/M3)	GELI GAMMA	K-40	48	3.80E-01	< LLD (0 /30)	< LLD (0 /18)	1 2 3 4 5
AIR PARTICULATE (PCI/M3)	GELI GAMMA	BE-7	48	3.60E-01	8.04E-02 (8 /30) (4.90E-02 - 1.10E-01)	8.90E-02(3 /18) (6.10E-02 - 1.20E-01)	1 2 3 4 5
AIR PARTICULATE (PCI/M3)	GELI GAMMA	ZR-95	48	6.20E-02	2.90E-02 (2 /30) (1.80E-02 - 4.00E-02)	2.60E-02(1 /18) (2.60E-02 - 2.60E-02)	1 2 3 4 5
AIR PARTICULATE (PCI/M3)	GELI GAMMA	NB-95	48	6.30E-02	2.45E-02 (10 /30) (1.20E-02 - 4.70E-02)	2.70E-02(10 /18) (6.40E-03 - 8.90E-02)	1 2 3 4 5
AIR PARTICULATE (PCI/M3)	GELI GAMMA	SB-125	48	7.90E-02	< LLD (0 /30)	< LLD (0 /18)	1 2 3 4 5
AIR PARTICULATE (PCI/M3)	GELI GAMMA	CE-141	48	6.70E-02	1.35E-02 (2 /30) (1.20E-02 - 1.50E-02)	1.20E-02(1 /18) (1.20E-02 - 1.20E-02)	1 2 3 4 5
AIR PARTICULATE (PCI/M3)	GELI GAMMA	RU-103	48	4.10E-02	1.22E-02 (8 /30) (7.40E-03 - 1.60E-02)	1.20E-02(1 /18) (1.20E-02 - 1.20E-02)	1 2 3 4 5
AIR PARTICULATE (PCI/M3)	GELI GAMMA	CR-51	48	4.40E-01	< LLD (0 /30)	< LLD (0 /18)	1 2 3 4 5
AIR PARTICULATE (PCI/M3)	GELI GAMMA	BA-140	48	5.00E-01	< LLD (0 /30)	< LLD (0 /18)	1 2 3 4 5

TABLE 18

RADIOLOGICAL ENVIRONMENTAL MONITORING PROGRAM SUMMARY
OYSTER CREEK NUCLEAR GENERATING STATION
DECEMBER,1980 THROUGH FEBRUARY,1981
FIRST QUARTER SUMMARY

SAMPLE TYPE	ANALYSIS	ISOTOPE	NUMBER OF ANALYSES PERFORMED	LLD	INDICATOR-MEAN(N/TOTAL) RANGE	BACKGROUND-MEAN(N/TOTAL) RANGE	STATIONS USED FOR INDICATOR MEAN
AIR PARTICULATE (PCI/M3)	GELI GAMMA	LA-140	48	2.40E-01	< LLD (0 /30)	< LLD (0 /18)	1 2 3 4 5
AIR PARTICULATE (PCI/M3)	GELI GAMMA	RA-226	48	5.60E-02	< LLD (0 /30)	< LLD (0 /18)	1 2 3 4 5
AIR PARTICULATE (PCI/M3)	GELI GAMMA	I-131	48	4.80E-01	< LLD (0 /30)	< LLD (0 /18)	1 2 3 4 5
AIR PARTICULATE (PCI/M3)	GELI GAMMA	NP-239	16	4.90E+00	< LLD (0 /10)	< LLD (0 /6)	1 2 3 4 5
AIR PARTICULATE (PCI/M3)	GELI GAMMA	RU-106	48	2.70E-01	< LLD (0 /30)	< LLD (0 /18)	1 2 3 4 5
AIR PARTICULATE (PCI/M3)	GELI GAMMA	CO-57	48	2.20E-02	< LLD (0 /30)	< LLD (0 /18)	1 2 3 4 5
AIR PARTICULATE (PCI/M3)	GELI GAMMA	I-133	1	1.40E+00	< LLD (0 /1)	(. - .) (. /.)	1
AIR PARTICULATE (PCI/M3)	GELI GAMMA	CS-137	48	2.90E-02	< LLD (0 /30)	< LLD (0 /18)	1 2 3 4 5
PRECIPITATION (MCI/M2)	GROSS BETA-SS		24	9.41E+01	1.21E-01 (12 /15) (4.18E-02 - 2.69E-01)	5.68E-02(6 /9) (2.50E-02 - 9.92E-02)	1 2 3 4 5
PRECIPITATION (MCI/M2)	GROSS BETA-DS		24	9.56E+01	5.82E-01 (15 /15) (1.53E-01 - 9.95E-01)	4.57E-01(9 /9) (2.36E-01 - 7.33E-01)	1 2 3 4 5
AIR IODINE (PCI/M3)	IODINE-131		48	3.10E-02	< LLD (0 /30)	< LLD (0 /18)	1 2 3 4 5
SURFACE WATER (PCI/L)	GROSS ALPHA-SS		21	3.04E-01	1.90E-01 (3 /20) (1.47E-01 - 2.28E-01)	< LLD (0 /1)	23 24 25 26 27

TABLE 18

RADIOLOGICAL ENVIRONMENTAL MONITORING PROGRAM SUMMARY
OYSTER CREEK NUCLEAR GENERATING STATION
DECEMBER,1980 THROUGH FEBRUARY,1981
FIRST QUARTER SUMMARY

SAMPLE TYPE	ANALYSIS	ISOTOPE	NUMBER OF ANALYSES PERFORMED	LLD	INDICATOR-MEAN(N/TOTAL) RANGE	BACKROUND-MEAN(N/TOTAL) RANGE	STATIONS USED FOR INDICATOR MEAN
SURFACE WATER (PCI/L)	GROSS ALPHA-DS		21	3.42E+00	2.39E+00 (4 /20) (1.40E+00 - 2.93E+00)	< LLD (0 /1)	23 24 25 26 27 32 33
SURFACE WATER (PCI/L)	GROSS BETA-SS		21	4.41E-01	5.03E-01 (11 /20) (1.86E-01 - 1.10E+00)	< LLD (0 /1)	23 24 25 26 27 32 33
SURFACE WATER (PCI/L)	GROSS BETA-DS		21	1.11E+01	6.85E+01 (17 /20) (2.17E+00 - 2.09E+02)	1.51E+02(1 /1) (1.51E+02 - 1.51E+02)	23 24 25 26 27 32 33
SURFACE WATER (MG/L)	CALCIUM BY AA		8	8.00E-02	1.20E+02 (7 /7) (2.00E-01 - 1.83E+02)	1.80E+02(1 /1) (1.80E+02 - 1.80E+02)	23 24 25 26 27 32 33
SURFACE WATER (PCI/L)	TRITIUM		21	2.06E+02	1.81E+02 (6 /20) (9.42E+01 - 3.71E+02)	< LLD (0 /1)	23 24 25 26 27 32 33
SURFACE WATER (PCI/L)	TOTAL URANIUM		21	1.83E+00	1.68E+00 (5 /20) (1.16E+00 - 2.41E+00)	< LLD (0 /1)	23 24 25 26 27 32 33
SURFACE WATER (PCI/L)	NAI GAMMA	CE-144	21	8.50E+01	< LLD (0 /20)	< LLD (0 /1)	23 24 25 26 27 32 33
SURFACE WATER (PCI/L)	NAI GAMMA	AG-110M	21	8.60E+00	< LLD (0 /20)	< LLD (0 /1)	23 24 25 26 27 32 33
SURFACE WATER (PCI/L)	NAI GAMMA	TE-129M	21	2.30E+02	< LLD (0 /20)	< LLD (0 /1)	23 24 25 26 27 32 33
SURFACE WATER (PCI/L)	NAI GAMMA	MO-99	21	6.10E+01	< LLD (0 /20)	< LLD (0 /1)	23 24 25 26 27 32 33
SURFACE WATER (PCI/L)	NAI GAMMA	ZRNB-95	21	6.20E+00	< LLD (0 /20)	< LLD (0 /1)	23 24 25 26 27 32 33
SURFACE WATER (PCI/L)	NAI GAMMA	CS-134	21	7.90E+00	< LLD (0 /20)	< LLD (0 /1)	23 24 25 26 27 32 33

TABLE 18

RADIOLOGICAL ENVIRONMENTAL MONITORING PROGRAM SUMMARY
OYSTER CREEK NUCLEAR GENERATING STATION
DECEMBER,1980 THROUGH FEBRUARY,1981
FIRST QUARTER SUMMARY

SAMPLE TYPE	ANALYSIS	ISOTOPE	NUMBER OF ANALYSES PERFORMED	LLD	INDICATOR-MEAN(N/TOTAL) RANGE	BACKROUND-MEAN(N/TOTAL) RANGE	STATIONS USED FOR INDICATOR MEAN
SURFACE WATER (PCI/L)	NAI GAMMA	CO-58	21	8.80E+00	< LLD (0 /20)	< LLD (0 /1)	23 24 25 26 27 32 33
SURFACE WATER (PCI/L)	NAI GAMMA	MN-54	21	6.70E+00	< LLD (0 /20)	< LLD (0 /1)	23 24 25 26 27 32 33
SURFACE WATER (PCI/L)	NAI GAMMA	TH-232	21	3.10E+01	< LLD (0 /20)	< LLD (0 /1)	23 24 25 26 27 32 33
SURFACE WATER (PCI/L)	NAI GAMMA	FE-59	21	2.20E+01	< LLD (0 /20)	< LLD (0 /1)	23 24 25 26 27 32 33
SURFACE WATER (PCI/L)	NAI GAMMA	CS-136	21	6.10E+01	< LLD (0 /20)	< LLD (0 /1)	23 24 25 26 27 32 33
SURFACE WATER (PCI/L)	NAI GAMMA	TE-132	21	7.60E+03	< LLD (0 /20)	< LLD (0 /1)	23 24 25 26 27 32 33
SURFACE WATER (PCI/L)	NAI GAMMA	ZN-65	21	1.70E+01	< LLD (0 /20)	< LLD (0 /1)	23 24 25 26 27 32 33
SURFACE WATER (PCI/L)	NAI GAMMA	CO-60	21	7.80E+00	< LLD (0 /20)	< LLD (0 /1)	23 24 25 26 27 32 33
SURFACE WATER (PCI/L)	NAI GAMMA	K-40	21	1.10E+02	2.68E+02 (14 /20) (1.80E+02 - 3.90E+02)	4.30E+02(1 /1) (4.30E+02 - 4.30E+02)	23 24 25 26 27 32 33
SURFACE WATER (PCI/L)	NAI GAMMA	BALA-140	21	5.30E+01	< LLD (0 /20)	< LLD (0 /1)	23 24 25 26 27 32 33
SURFACE WATER (PCI/L)	NAI GAMMA	CR-51	21	1.90E+02	< LLD (0 /20)	< LLD (0 /1)	23 24 25 26 27 32 33
SURFACE WATER (PCI/L)	NAI GAMMA	RA-226	21	1.40E+01	< LLD (0 /20)	< LLD (0 /1)	23 24 25 26 27 32 33

TABLE 18

RADIOLOGICAL ENVIRONMENTAL MONITORING PROGRAM SUMMARY
OYSTER CREEK NUCLEAR GENERATING STATION
DECEMBER,1980 THROUGH FEBRUARY,1981
FIRST QUARTER SUMMARY

SAMPLE TYPE	ANALYSIS	ISOTOPE	NUMBER OF ANALYSES PERFORMED	LLD	INDICATOR-MEAN(N/TOTAL) RANGE	BACKROUND-MEAN(N/TOTAL) RANGE	STATIONS USED FOR INDICATOR MEAN
SURFACE WATER (PCI/L)	NAI GAMMA	I-131	21	1.60E+02	< LLD (0 /20)	< LLD (0 /1)	23 24 25 26 27 32 33
SURFACE WATER (PCI/L)	NAI GAMMA	NA-22	21	8.00E+00	< LLD (0 /20)	< LLD (0 /1)	23 24 25 26 27 32 33
SURFACE WATER (PCI/L)	NAI GAMMA	RU-106	21	6.60E+01	< LLD (0 /20)	< LLD (0 /1)	23 24 25 26 27 32 33
SURFACE WATER (PCI/L)	NAI GAMMA	I-133	21	7.80E+00	< LLD (0 /20)	< LLD (0 /1)	23 24 25 26 27 32 33
SURFACE WATER (PCI/L)	NAI GAMMA	CS-137	21	7.80E+00	< LLD (0 /20)	< LLD (0 /1)	23 24 25 26 27 32 33
SURFACE WATER (PCI/L)	RADIUM-226		21	2.12E-01	4.02E-01 (17 /20) (1.70E-01 - 1.06E+00)	1.39E-01(1 /1) (1.39E-01 - 1.39E-01)	23 24 25 26 27 32 33
SURFACE WATER (PCI/L)	RADIUM-228		21	5.41E+00	< LLD (0 /20)	2.05E+01(1 /1) (2.05E+01 - 2.05E+01)	23 24 25 26 27 32 33
SURFACE WATER (PCI/L)	STRONTIUM-90		21	6.15E-01	4.47E-01 (6 /20) (2.47E-01 - 6.82E-01)	< LLD (0 /1)	23 24 25 26 27 32 33
WELL WATER (PCI/L)	GROSS ALPHA-SS		18	1.95E-01	8.29E-01 (2 /18) (1.58E-01 - 1.50E+00)	(. - .) (. /.)	1 18 19 20 21 22
WELL WATER (PCI/L)	GROSS ALPHA-DS		18	4.09E+00	2.02E+00 (10 /18) (9.54E-01 - 4.88E+00)	(. - .) (. /.)	1 18 19 20 21 22
WELL WATER (PCI/L)	GROSS BETA-SS		18	5.06E-01	< LLD (0 /18)	(. - .) (. /.)	1 18 19 20 21 22
WELL WATER (PCI/L)	GROSS BETA-DS		18	6.59E-01	2.97E+00 (18 /18) (3.68E-01 - 7.58E+00)	(. - .) (. /.)	1 18 19 20 21 22

TABLE 18

RADIOLOGICAL ENVIRONMENTAL MONITORING PROGRAM SUMMARY
OYSTER CREEK NUCLEAR GENERATING STATION
DECEMBER,1980 THROUGH FEBRUARY,1981
FIRST QUARTER SUMMARY

SAMPLE TYPE	ANALYSIS	ISOTOPE	NUMBER OF ANALYSES PERFORMED	LLD	INDICATOR-MEAN(N/TOTAL) RANGE	BACKROUND-MEAN(N/TOTAL) RANGE	STATIONS USED FOR INDICATOR MEAN
WELL WATER (PCI/L)	POTASSIUM-40		6	8.60E-01	2.35E+00 (6 /6) (7.20E-01 - 6.26E+00)	(. - .) (. /.)	1 18 19 20 21 22
WELL WATER (PCI/L)	TRITIUM		6	2.00E+02	2.66E+02 (2 /6) (1.67E+02 - 3.65E+02)	(. - .) (. /.)	1 18 19 20 21 22
WELL WATER (PCI/L)	TOTAL URANIUM		6	5.20E-01	5.06E-01 (1 /6) (5.06E-01 - 5.06E-01)	(. - .) (. /.)	1 18 19 20 21 22
WELL WATER (PCI/L)	RADIUM-226		6	1.60E-01	7.71E-01 (6 /6) (2.14E-01 - 2.09E+00)	(. - .) (. /.)	1 18 19 20 21 22
WELL WATER (PCI/L)	RADIUM-228		6	5.00E+00	9.87E-01 (1 /6) (9.87E-01 - 9.87E-01)	(. - .) (. /.)	1 18 19 20 21 22
CLAMS (PCI/GM(WET))	GROSS ALPHA		9	5.63E-02	9.99E-02 (8 /8) (4.84E-02 - 1.83E-01)	5.93E-02(1 /1) (5.93E-02 - 5.93E-02)	23 24 25
CLAMS (PCI/GM(WET))	GROSS BETA		9	5.00E-02	1.77E+00 (8 /8) (6.15E-01 - 3.37E+00)	1.04E+00(1 /1) (1.04E+00 - 1.04E+00)	23 24 25
CLAMS (MG/GM(WET))	CALCIUM BY AA		4	7.70E-01	2.66E+03 (3 /3) (2.35E+03 - 3.06E+03)	2.39E+03(1 /1) (2.39E+03 - 2.39E+03)	23 24 25
CLAMS (PCI/GM(WET))	NAI GAMMA	CE-144	4	3.50E-02	< LLD (0 /3)	< LLD (0 /1)	23 24 25
CLAMS (PCI/GM(WET))	NAI GAMMA	AG-110M	4	1.20E-02	< LLD (0 /3)	< LLD (0 /1)	23 24 25
CLAMS (PCI/GM(WET))	NAI GAMMA	TE-129M	4	3.80E-01	< LLD (0 /3)	< LLD (0 /1)	23 24 25
CLAMS (PCI/GM(WET))	NAI GAMMA	MO-99	4	7.80E-02	< LLD (0 /3)	< LLD (0 /1)	23 24 25

TABLE 18

RADIOLOGICAL ENVIRONMENTAL MONITORING PROGRAM SUMMARY
OYSTER CREEK NUCLEAR GENERATING STATION
DECEMBER,1980 THROUGH FEBRUARY,1981
FIRST QUARTER SUMMARY

SAMPLE TYPE	ANALYSIS	ISOTOPE	NUMBER OF ANALYSES PERFORMED	LLD	INDICATOR-MEAN(N/TOTAL) RANGE	BACKROUND-MEAN(N/TOTAL) RANGE	STATIONS USED FOR INDICATOR MEAN
CLAMS (PCI/GM(WET))	NAI GAMMA	ZRNB-95	4	1.10E-02	< LLD (0 /3)	< LLD (0 /1)	23 24 25
CLAMS (PCI/GM(WET))	NAI GAMMA	CS-134	4	1.10E-02	< LLD (0 /3)	< LLD (0 /1)	23 24 25
CLAMS (PCI/GM(WET))	NAI GAMMA	CO-58	4	1.70E-02	< LLD (0 /3)	< LLD (0 /1)	23 24 25
CLAMS (PCI/GM(WET))	NAI GAMMA	MN-54	4	1.20E-02	< LLD (0 /3)	< LLD (0 /1)	23 24 25
CLAMS (PCI/GM(WET))	NAI GAMMA	TH-232	4	4.70E-02	< LLD (0 /3)	< LLD (0 /1)	23 24 25
CLAMS (PCI/GM(WET))	NAI GAMMA	FE-59	4	6.10E-02	< LLD (0 /3)	< LLD (0 /1)	23 24 25
CLAMS (PCI/GM(WET))	NAI GAMMA	CS-136	4	1.60E-01	< LLD (0 /3)	< LLD (0 /1)	23 24 25
CLAMS (PCI/GM(WET))	NAI GAMMA	TE-132	4	7.80E-03	< LLD (0 /3)	< LLD (0 /1)	23 24 25
CLAMS (PCI/GM(WET))	NAI GAMMA	ZN-65	4	3.50E-02	< LLD (0 /3)	< LLD (0 /1)	23 24 25
CLAMS (PCI/GM(WET))	NAI GAMMA	CO-60	4	1.40E-02	< LLD (0 /3)	< LLD (0 /1)	23 24 25
CLAMS (PCI/GM(WET))	NAI GAMMA	K-40	4	1.60E-01	1.42E+00 (3 /3) (8.70E-01 - 1.90E+00)	1.50E+00(1 /1) (1.50E+00 - 1.50E+00)	23 24 25
CLAMS (PCI/GM(WET))	NAI GAMMA	BALA-140	4	1.30E-01	< LLD (0 /3)	< LLD (0 /1)	23 24 25

TABLE 18

RADIOLOGICAL ENVIRONMENTAL MONITORING PROGRAM SUMMARY
OYSTER CREEK NUCLEAR GENERATING STATION
DECEMBER, 1980 THROUGH FEBRUARY, 1981
FIRST QUARTER SUMMARY

SAMPLE TYPE	ANALYSIS	ISOTOPE	NUMBER OF ANALYSES PERFORMED	LLD	INDICATOR-MEAN(N/TOTAL) RANGE	BACKROUND-MEAN(N/TOTAL) RANGE	STATIONS USED FOR INDICATOR MEAN
CLAMS (PCI/GM(WET))	NAI GAMMA	CR-51	4	2.30E-01	< LLD (0 /3)	< LLD (0 /1)	23 24 25
CLAMS (PCI/GM(WET))	NAI GAMMA	RA-226	4	1.60E-02	< LLD (0 /3)	< LLD (0 /1)	23 24 25
CLAMS (PCI/GM(WET))	NAI GAMMA	I-131	4	4.00E-01	< LLD (0 /3)	< LLD (0 /1)	23 24 25
CLAMS (PCI/GM(WET))	NAI GAMMA	NA-22	4	1.40E-02	< LLD (0 /3)	< LLD (0 /1)	23 24 25
CLAMS (PCI/GM(WET))	NAI GAMMA	RU-106	4	1.20E-01	< LLD (0 /3)	< LLD (0 /1)	23 24 25
CLAMS (PCI/GM(WET))	NAI GAMMA	I-133	4	1.20E-02	< LLD (0 /3)	< LLD (0 /1)	23 24 25
CLAMS (PCI/GM(WET))	NAI GAMMA	CS-137	4	1.20E-02	< LLD (0 /3)	< LLD (0 /1)	23 24 25
CLAMS (PCI/GM(WET))	STRONTIUM-90		4	8.81E-03	< LLD (0 /3)	< LLD (0 /1)	23 24 25
SOIL (PCI/GM(DRY))	GROSS BETA		15	1.03E+00	7.20E+00 (15 /15) (1.52E+00 - 2.41E+01)	(. - .) (. /.)	1 2 3 4 5
SOIL (PCI/GM(DRY))	GELI GAMMA	CE-144	1	6.50E-01	< LLD (0 /1)	(. - .) (. /.)	5
SOIL (PCI/GM(DRY))	GELI GAMMA	AG-110M	1	2.00E-01	< LLD (0 /1)	(. - .) (. /.)	5
SOIL (PCI/GM(DRY))	GELI GAMMA	TE-129M	1	2.30E+01	< LLD (0 /1)	(. - .) (. /.)	5

TABLE 18
RADIOLOGICAL ENVIRONMENTAL MONITORING PROGRAM SUMMARY
OYSTER CREEK NUCLEAR GENERATING STATION
DECEMBER,1980 THROUGH FEBRUARY,1981
FIRST QUARTER SUMMARY

SAMPLE TYPE	ANALYSIS	ISOTOPE	NUMBER OF ANALYSES PERFORMED	LLD	INDICATOR-MEAN(N/TOTAL) RANGE	BACKROUND-MEAN(N/TOTAL) RANGE	STATIONS USED FOR INDICATOR MEAN
SOIL (PCI/GM(DRY))	GELI GAMMA	CS-134	1	1.60E-01	< LLD (0 /1)	(. - .) (. /.)	5
SOIL (PCI/GM(DRY))	GELI GAMMA	CO-58	1	2.90E-01	< LLD (0 /1)	(. - .) (. /.)	5
SOIL (PCI/GM(DRY))	GELI GAMMA	MN-54	1	1.50E-01	< LLD (0 /1)	(. - .) (. /.)	5
SOIL (PCI/GM(DRY))	GELI GAMMA	TH-232	1	4.90E-01	9.50E-01 (1 /1) (9.50E-01 - 9.50E-01)	(. - .) (. /.)	5
SOIL (PCI/GM(DRY))	GELI GAMMA	FE-59	1	9.10E-01	< LLD (0 /1)	(. - .) (. /.)	5
SOIL (PCI/GM(DRY))	GELI GAMMA	CS-136	1	1.40E+01	< LLD (0 /1)	(. - .) (. /.)	5
SOIL (PCI/GM(DRY))	GELI GAMMA	ZN-65	1	4.30E-01	< LLD (0 /1)	(. - .) (. /.)	5
SOIL (PCI/GM(DRY))	GELI GAMMA	CO-60	1	1.40E-01	< LLD (0 /1)	(. - .) (. /.)	5
SOIL (PCI/GM(DRY))	GELI GAMMA	K-40	1	9.70E-01	1.90E+01 (1 /1) (1.90E+01 - 1.90E+01)	(. - .) (. /.)	5
SOIL (PCI/GM(DRY))	GELI GAMMA	BE-7	1	3.30E+00	< LLD (0 /1)	(. - .) (. /.)	5
SOIL (PCI/GM(DRY))	GELI GAMMA	ZR-95	1	6.10E-01	< LLD (0 /1)	(. - .) (. /.)	5
SOIL (PCI/GM(DRY))	GELI GAMMA	NB-95	1	7.80E-01	< LLD (0 /1)	(. - .) (. /.)	5

TABLE 18

RADIOLOGICAL ENVIRONMENTAL MONITORING PROGRAM SUMMARY
OYSTER CREEK NUCLEAR GENERATING STATION
DECEMBER,1980 THROUGH FEBRUARY,1981
FIRST QUARTER SUMMARY

SAMPLE TYPE	ANALYSIS	ISOTOPE	NUMBER OF ANALYSES PERFORMED	LLD	INDICATOR-MEAN(N/TOTAL) RANGE	BACKROUND-MEAN(N/TOTAL) RANGE	STATIONS USED FOR INDICATOR MEAN
SOIL (PCI/GM(DRY))	GELI GAMMA	SB-125	1	3.90E-01	< LLD (0 /1)	(. - . (. /.))	5
SOIL (PCI/GM(DRY))	GELI GAMMA	CE-141	1	9.60E-01	< LLD (0 /1)	(. - . (. /.))	5
SOIL (PCI/GM(DRY))	GELI GAMMA	RU-103	1	6.20E-01	< LLD (0 /1)	(. - . (. /.))	5
SOIL (PCI/GM(DRY))	GELI GAMMA	CR-51	1	9.80E+00	< LLD (0 /1)	(. - . (. /.))	5
SOIL (PCI/GM(DRY))	GELI GAMMA	BA-140	1	6.50E+01	< LLD (0 /1)	(. - . (. /.))	5
SOIL (PCI/GM(DRY))	GELI GAMMA	LA-140	1	1.80E+01	< LLD (0 /1)	(. - . (. /.))	5
SOIL (PCI/GM(DRY))	GELI GAMMA	RA-226	1	2.70E-01	9.00E-01 (1 /1) (9.00E-01 - 9.00E-01)	(. - . (. /.))	5
SOIL (PCI/GM(DRY))	GELI GAMMA	RU-106	1	1.30E+00	< LLD (0 /1)	(. - . (. /.))	5
SOIL (PCI/GM(DRY))	GELI GAMMA	CO-57	1	8.40E-02	< LLD (0 /1)	(. - . (. /.))	5
SOIL (PCI/GM(DRY))	GELI GAMMA	CS-137	1	1.20E-01	3.20E-01 (1 /1) (3.20E-01 - 3.20E-01)	(. - . (. /.))	5
PASTURE (PCI/GM(WET))	GROSS BETA		3	1.56E-01	1.45E+01 (3 /3) (4.25E+00 - 2.74E+01)	(. - . (. /.))	28 29 38
PASTURE (UG/GM(WET))	CALCIUM BY AA		3	2.87E+00	6.62E+03 (3 /3) (5.12E+03 - 9.45E+03)	(. - . (. /.))	28 29 38

TABLE 18
RADIOLOGICAL ENVIRONMENTAL MONITORING PROGRAM SUMMARY
OYSTER CREEK NUCLEAR GENERATING STATION
DECEMBER,1980 THROUGH FEBRUARY,1981
FIRST QUARTER SUMMARY

SAMPLE TYPE	ANALYSIS	ISOTOPE	NUMBER OF ANALYSES PERFORMED	LLD	INDICATOR-MEAN(N/TOTAL) RANGE	BACKGROUND-MEAN(N/TOTAL) RANGE	STATIONS USED FOR INDICATOR MEAN
PASTURE (PCI/GM(WET))	STRONTIUM-90		3	2.82E-02	2.13E-01 (3 /3) (1.54E-02 - 3.56E-01)	(. - .)	28 29 30
SILT (PCI/GM(DRY))	GROSS ALPHA		8	4.63E+00	6.08E+00 (2 /7) (4.91E+00 - 7.26E+00)	< LLD (0 /1)	23 24 25 26 27 32 33
SILT (PCI/GM(DRY))	GROSS BETA		8	1.31E+00	7.74E+00 (7 /7) (1.22E+00 - 1.74E+01)	1.34E+01(1 /1) (1.34E+01 - 1.34E+01)	23 24 25 26 27 32 33
SILT (PCI/GM(DRY))	GELI GAMMA	CE-144	15	4.40E-01	< LLD (0 /14)	< LLD (0 /1)	23 24 25 32 33
SILT (PCI/GM(DRY))	GELI GAMMA	AG-110M	15	1.10E-01	< LLD (0 /14)	< LLD (0 /1)	23 24 25 32 33
SILT (PCI/GM(DRY))	GELI GAMMA	TE-129M	15	6.50E+00	< LLD (0 /14)	< LLD (0 /1)	23 24 25 32 33
SILT (PCI/GM(DRY))	GELI GAMMA	MO-99	6	8.20E+00	< LLD (0 /6)	(. - .)	23 24 25 32
SILT (PCI/GM(DRY))	GELI GAMMA	CS-134	15	9.30E-02	< LLD (0 /14)	< LLD (0 /1)	23 24 25 32 33
SILT (PCI/GM(DRY))	GELI GAMMA	CO-58	15	1.40E-01	< LLD (0 /14)	< LLD (0 /1)	23 24 25 32 33
SILT (PCI/GM(DRY))	GELI GAMMA	MN-54	15	1.10E-01	8.30E-02 (2 /14) (7.70E-02 - 8.90E-02)	< LLD (0 /1)	23 24 25 32 33
SILT (PCI/GM(DRY))	GELI GAMMA	TH-232	15	3.80E-01	4.05E-01 (10 /14) (1.80E-01 - 7.70E-01)	4.90E-01(1 /1) (4.90E-01 - 4.90E-01)	23 24 25 32 33
SILT (PCI/GM(DRY))	GELI GAMMA	FE-59	15	3.80E-01	< LLD (0 /14)	< LLD (0 /1)	23 24 25 32 33

TABLE 18

RADIOLOGICAL ENVIRONMENTAL MONITORING PROGRAM SUMMARY
OYSTER CREEK NUCLEAR GENERATING STATION
DECEMBER,1980 THROUGH FEBRUARY,1981
FIRST QUARTER SUMMARY

SAMPLE TYPE	ANALYSIS	ISOTOPE	NUMBER OF ANALYSES PERFORMED	LLD	INDICATOR-MEAN(N/TOTAL) RANGE	BACKROUND-MEAN(N/TOTAL) RANGE	STATIONS USED FOR INDICATOR MEAN
SILT (PCI/GM(DRY))	GELI GAMMA	CS-136	15	9.40E-01	< LLD (0 /14)	< LLD (0 /1)	23 24 25 32 33
SILT (PCI/GM(DRY))	GELI GAMMA	ZN-65	15	3.10E-01	< LLD (0 /14)	< LLD (0 /1)	23 24 25 32 33
SILT (PCI/GM(DRY))	GELI GAMMA	CO-60	15	1.50E-01	3.44E-01 (10 /14) (3.90E-02 - 1.80E+00)	< LLD (0 /1)	23 24 25 32 33
SILT (PCI/GM(DRY))	GELI GAMMA	K-40	15	1.20E+00	5.98E+00 (14 /14) (8.00E-01 - 1.40E+01)	1.10E+01(1 /1) (1.10E+01 - 1.10E+01)	23 24 25 32 33
SILT (PCI/GM(DRY))	GELI GAMMA	BE-7	15	1.10E+00	6.60E-01 (1 /14) (6.60E-01 - 6.60E-01)	< LLD (0 /1)	23 24 25 32 33
SILT (PCI/GM(DRY))	GELI GAMMA	ZR-95	15	2.20E-01	< LLD (0 /14)	< LLD (0 /1)	23 24 25 32 33
SILT (PCI/GM(DRY))	GELI GAMMA	NB-95	15	2.30E-01	4.50E-02 (1 /14) (4.50E-02 - 4.50E-02)	< LLD (0 /1)	23 24 25 32 33
SILT (PCI/GM(DRY))	GELI GAMMA	SB-125	15	2.10E-01	< LLD (0 /14)	< LLD (0 /1)	23 24 25 32 33
SILT (PCI/GM(DRY))	GELI GAMMA	CE-141	15	2.10E-01	< LLD (0 /14)	< LLD (0 /1)	23 24 25 32 33
SILT (PCI/GM(DRY))	GELI GAMMA	RU-103	15	1.60E-01	< LLD (0 /14)	< LLD (0 /1)	23 24 25 32 33
SILT (PCI/GM(DRY))	GELI GAMMA	CR-51	15	1.80E+00	< LLD (0 /14)	< LLD (0 /1)	23 24 25 32 33
SILT (PCI/GM(DRY))	GELI GAMMA	BA-140	15	4.10E+00	< LLD (0 /14)	< LLD (0 /1)	23 24 25 32 33

TABLE 18

RADIOLOGICAL ENVIRONMENTAL MONITORING PROGRAM SUMMARY
OYSTER CREEK NUCLEAR GENERATING STATION
DECEMBER,1980 THROUGH FEBRUARY,1981
FIRST QUARTER SUMMARY

SAMPLE TYPE	ANALYSIS	ISOTOPE	NUMBER OF ANALYSES PERFORMED	LLD	INDICATOR-MEAN(N/TOTAL) RANGE	BACKGROUND-MEAN(N/TOTAL) RANGE	STATIONS USED FOR INDICATOR MEAN
SILT (PCI/GM(DRY))	GELI GAMMA	LA-140	15	1.80E+00	< LLD (0 /14)	< LLD (0 /1)	23 24 25 32 33
SILT (PCI/GM(DRY))	GELI GAMMA	RA-226	15	2.30E-01	3.50E-01 (14 /14) (1.90E-01 - 5.50E-01)	3.10E-01(1 /1) (3.10E-01 - 3.10E-01)	23 24 25 32 33
SILT (PCI/GM(DRY))	GELI GAMMA	I-131	15	4.10E+00	< LLD (0 /14)	< LLD (0 /1)	23 24 25 32 33
SILT (PCI/GM(DRY))	GELI GAMMA	NP-239	1	2.30E+01	< LLD (0 /1)	. (. /.) (. - .)	25
SILT (PCI/GM(DRY))	GELI GAMMA	RU-106	15	7.80E-01	< LLD (0 /14)	< LLD (0 /1)	23 24 25 32 33
SILT (PCI/GM(DRY))	GELI GAMMA	CO-57	15	5.40E-02	< LLD (0 /14)	< LLD (0 /1)	23 24 25 32 33
SILT (PCI/GM(DRY))	GELI GAMMA	CS-137	15	8.90E-02	1.56E-01 (4 /14) (7.40E-02 - 2.30E-01)	3.60E-02(1 /1) (3.60E-02 - 3.60E-02)	23 24 25 32 33

TABLE 19
RADIOLOGICAL ENVIRONMENTAL MONITORING PROGRAM SUMMARY
OYSTER CREEK NUCLEAR GENERATING STATION
MARCH,1981 THROUGH MAY,1981
SECOND QUARTER SUMMARY

SAMPLE TYPE	ANALYSIS	ISOTOPE	NUMBER OF ANALYSES PERFORMED	LLD	INDICATOR-MEAN(N/TOTAL) RANGE	BACKROUND-MEAN(N/TOTAL) RANGE	STATIONS USED FOR INDICATOR MEAN
VEGETATION (PCI/GM(WET))	GROSS BETA		20	4.74E-02	5.75E+00 (20 /20) (2.18E+00 - 9.88E+00)	. (. /.) (. - .)	1 2 3 4 5
AIR PARTICULATE (PCI/M3)	GROSS ALPHA		16	3.22E-02	7.62E-04 (3 /10) (5.43E-04 - 1.19E-03)	1.02E-03(2 /6) (9.54E-04 - 1.09E-03)	1 2 3 4 5
AIR PARTICULATE (PCI/M3)	GROSS BETA		56	9.64E-02	1.62E-01 (35 /35) (7.47E-02 - 3.46E-01)	1.22E-01(21 /21) (5.56E-02 - 2.79E-01)	1 2 3 4 5
AIR PARTICULATE (PCI/M3)	GELI GAMMA	CE-144	56	1.40E+00	5.67E-02 (11 /35) (9.70E-03 - 1.10E-01)	4.95E-02(4 /21) (3.50E-02 - 9.20E-02)	1 2 3 4 5
AIR PARTICULATE (PCI/M3)	GELI GAMMA	AG-110M	56	2.70E-01	< LLD (0 /35)	< LLD (0 /21)	1 2 3 4 5
AIR PARTICULATE (PCI/M3)	GELI GAMMA	TE-129M	56	9.70E+00	< LLD (0 /35)	1.00E-01(1 /21) (1.00E-01 - 1.00E-01)	1 2 3 4 5
AIR PARTICULATE (PCI/M3)	GELI GAMMA	MO-99	46	3.70E+00	< LLD (0 /29)	< LLD (0 /17)	1 2 3 4 5
AIR PARTICULATE (PCI/M3)	GELI GAMMA	CS-134	56	2.90E-01	< LLD (0 /35)	< LLD (0 /21)	1 2 3 4 5

TABLE 19

RADIOLOGICAL ENVIRONMENTAL MONITORING PROGRAM SUMMARY
OYSTER CREEK NUCLEAR GENERATING STATION
MARCH,1981 THROUGH MAY,1981
SECOND QUARTER SUMMARY

SAMPLE TYPE	ANALYSIS	ISOTOPE	NUMBER OF ANALYSES PERFORMED	LLD	INDICATOR-MEAN(N/TOTAL) RANGE		BACKROUND-MEAN(N/TOTAL) RANGE		STATIONS USED FOR INDICATOR MEAN
AIR PARTICULATE (PCI/M3)	GELI GAMMA	CO-58	56	3.10E-01	< LLD	(0 /35)	< LLD	(0 /21)	1 2 3 4 5
AIR PARTICULATE (PCI/M3)	GELI GAMMA	MN-54	56	3.80E-01	< LLD	(0 /35)	< LLD	(0 /21)	1 2 3 4 5
AIR PARTICULATE (PCI/M3)	GELI GAMMA	TH-232	56	1.20E+00	< LLD	(0 /35)	< LLD	(0 /21)	1 2 3 4 5
AIR PARTICULATE (PCI/M3)	GELI GAMMA	FE-59	56	6.20E-01	< LLD	(0 /35)	< LLD	(0 /21)	1 2 3 4 5
AIR PARTICULATE (PCI/M3)	GELI GAMMA	CS-136	56	6.80E-01	< LLD	(0 /35)	< LLD	(0 /21)	1 2 3 4 5
AIR PARTICULATE (PCI/M3)	GELI GAMMA	ZN-65	56	8.10E-01	< LLD	(0 /35)	< LLD	(0 /21)	1 2 3 4 5
AIR PARTICULATE (PCI/M3)	GELI GAMMA	CO-60	56	3.90E-01	< LLD	(0 /35)	3.10E-02(1 /21) (3.10E-02 - 3.10E-02)		1 2 3 4 5
AIR PARTICULATE (PCI/M3)	GELI GAMMA	K-40	56	5.50E+00	< LLD	(0 /35)	< LLD	(0 /21)	1 2 3 4 5

TABLE 19

RADIOLOGICAL ENVIRONMENTAL MONITORING PROGRAM SUMMARY
OYSTER CREEK NUCLEAR GENERATING STATION
MARCH,1981 THROUGH MAY,1981
SECOND QUARTER SUMMARY

SAMPLE TYPE	ANALYSIS	ISOTOPE	NUMBER OF ANALYSES PERFORMED	LLD	INDICATOR-MEAN(N/TOTAL) RANGE	BACKROUND-MEAN(N/TOTAL) RANGE	STATIONS USED FOR INDICATOR MEAN
AIR PARTICULATE (PCI/M3)	GELI GAMMA	BE-7	56	2.90E+00	1.09E-01 (18 /35) (5.70E-02 - 2.20E-01)	9.40E-02(3 /21) (5.20E-02 - 1.30E-01)	1 2 3 4 5
AIR PARTICULATE (PCI/M3)	GELI GAMMA	ZR-95	56	4.70E-01	4.59E-02 (20 /35) (2.30E-02 - 8.50E-02)	3.38E-02(11 /21) (2.00E-02 - 5.10E-02)	1 2 3 4 5
AIR PARTICULATE (PCI/M3)	GELI GAMMA	NB-95	56	4.40E-01	8.25E-02 (33 /35) (4.00E-02 - 1.70E-01)	6.48E-02(20 /21) (2.20E-02 - 1.30E-01)	1 2 3 4 5
AIR PARTICULATE (PCI/M3)	GELI GAMMA	SB-125	56	8.20E-01	< LLD (0 /35)	< LLD (0 /21)	1 2 3 4 5
AIR PARTICULATE (PCI/M3)	GELI GAMMA	CE-141	56	3.60E-01	1.16E-02 (6 /35) (3.20E-03 - 8.10E-02)	1.06E-02(2 /21) (7.30E-03 - 1.40E-02)	1 2 3 4 5
AIR PARTICULATE (PCI/M3)	GELI GAMMA	RU-103	56	3.00E-01	2.13E-02 (23 /35) (7.80E-03 - 3.80E-02)	1.63E-02(11 /21) (2.80E-03 - 2.90E-02)	1 2 3 4 5
AIR PARTICULATE (PCI/M3)	GELI GAMMA	CR-51	56	2.70E+00	< LLD (0 /35)	< LLD (0 /21)	1 2 3 4 5
AIR PARTICULATE (PCI/M3)	GELI GAMMA	BA-140	56	2.20E+00	< LLD (0 /35)	< LLD (0 /21)	1 2 3 4 5

TABLE 19
RADIOLOGICAL ENVIRONMENTAL MONITORING PROGRAM SUMMARY
OYSTER CREEK NUCLEAR GENERATING STATION
MARCH,1981 THROUGH MAY,1981
SECOND QUARTER SUMMARY

SAMPLE TYPE	ANALYSIS	ISOTOPE	NUMBER OF ANALYSES PERFORMED	LLD	INDICATOR-MEAN(N/TOTAL) RANGE	BACKROUND-MEAN(N/TOTAL) RANGE	STATIONS USED FOR INDICATOR MEAN
AIR PARTICULATE (PCI/M3)	GELI GAMMA	LA-140	48	8.70E-02	< LLD (0 /32)	< LLD (0 /16)	1 2 3 4 5
AIR PARTICULATE (PCI/M3)	GELI GAMMA	RA-226	56	6.50E-01	< LLD (0 /35)	< LLD (0 /21)	1 2 3 4 5
AIR PARTICULATE (PCI/M3)	GELI GAMMA	I-131	56	6.50E-01	< LLD (0 /35)	< LLD (0 /21)	1 2 3 4 5
AIR PARTICULATE (PCI/M3)	GELI GAMMA	NP-239	29	2.30E+01	< LLD (0 /18)	< LLD (0 /11)	1 2 3 4 5
AIR PARTICULATE (PCI/M3)	GELI GAMMA	RU-106	56	2.00E+00	< LLD (0 /35)	< LLD (0 /21)	1 2 3 4 5
AIR PARTICULATE (PCI/M3)	GELI GAMMA	CO-57	56	1.50E-01	< LLD (0 /35)	< LLD (0 /21)	1 2 3 4 5
AIR PARTICULATE (PCI/M3)	GELI GAMMA	CS-137	56	2.70E-01	6.80E-03 (1 /35) (6.80E-03 - 6.80E-03)	< LLD (0 /21)	1 2 3 4 5
PRECIPITATION (NCI/M2)	GROSS BETA-SS		32	5.95E+01	3.20E-01 (13 /20) (7.63E-02 - 1.82E+00)	1.48E-01(10 /12) (4.83E-02 - 3.68E-01)	1 2 3 4 5

TABLE 19

RADIOLOGICAL ENVIRONMENTAL MONITORING PROGRAM SUMMARY
OYSTER CREEK NUCLEAR GENERATING STATION
MARCH,1981 THROUGH MAY,1981
SECOND QUARTER SUMMARY

SAMPLE TYPE	ANALYSIS	ISOTOPE	NUMBER OF ANALYSES PERFORMED	LLD	INDICATOR-MEAN(N/TOTAL) RANGE	BACKROUND-MEAN(N/TOTAL) RANGE	STATIONS USED FOR INDICATOR MEAN
PRECIPITATION (NCI/M2)	GROSS BETA-DS		32	2.33E+02	1.40E+00 (20 /20) (6.88E-01 - 3.61E+00)	1.16E+00(12 /12) (5.22E-01 - 2.61E+00)	1 2 3 4 5
AIR IODINE (PCI/M3)	IODINE-131		56	2.97E-01	< LLD (0 /35)	< LLD (0 /21)	1 2 3 4 5
SURFACE WATER (PCI/L)	GROSS ALPHA-SS		32	3.80E-01	4.83E-01 (4 /28) (2.06E-01 - 9.83E-01)	2.29E-01(1 /4) (2.29E-01 - 2.29E-01)	23 24 25 26 27 32 33
SURFACE WATER (PCI/L)	GROSS ALPHA-DS		32	2.56E+00	2.46E+00 (4 /28) (2.28E+00 - 2.61E+00)	2.29E+00(2 /4) (1.59E+00 - 3.00E+00)	23 24 25 26 27 32 33
SURFACE WATER (PCI/L)	GROSS BETA-SS		32	3.04E-01	4.44E-01 (10 /28) (2.40E-01 - 1.16E+00)	2.67E-01(3 /4) (1.97E-01 - 3.41E-01)	23 24 25 26 27 32 33
SURFACE WATER (PCI/L)	GROSS BETA-DS		32	7.81E+00	1.07E+02 (28 /28) (1.91E+00 - 2.48E+02)	1.57E+02(4 /4) (8.08E+01 - 2.13E+02)	23 24 25 26 27 32 33
SURFACE WATER (MG/L)	CALCIUM BY AA		16	8.00E-02	1.69E+02 (14 /14) (1.50E-01 - 2.60E+02)	1.91E+02(2 /2) (1.23E+02 - 2.60E+02)	23 24 25 26 27 32 33
SURFACE WATER (PCI/L)	TRITIUM		32	2.11E+02	1.46E+02 (3 /28) (8.22E+01 - 2.41E+02)	< LLD (0 /4)	23 24 25 26 27 32 33

TABLE 19
RADIOLOGICAL ENVIRONMENTAL MONITORING PROGRAM SUMMARY
OYSTER CREEK NUCLEAR GENERATING STATION
MARCH,1981 THROUGH MAY,1981
SECOND QUARTER SUMMARY

SAMPLE TYPE	ANALYSIS	ISOTOPE	NUMBER OF ANALYSES PERFORMED	LLD	INDICATOR-MEAN(N/TOTAL) RANGE	BACKROUND-MEAN(N/TOTAL) RANGE	STATIONS USED FOR INDICATOR MEAN
SURFACE WATER (PCI/L)	TOTAL URANIUM		32	2.04E+00	1.55E+00 (3 /28) (1.42E+00 - 1.62E+00)	1.16E+00(1 /4) (1.16E+00 - 1.16E+00)	23 24 25 26 27 32 33
SURFACE WATER (PCI/L)	NAI GAMMA	CE-144	30	8.10E+01	< LLD (0 /26)	< LLD (0 /4)	23 24 25 26 27 32 33
SURFACE WATER (PCI/L)	NAI GAMMA	AG-110M	32	8.20E+00	< LLD (0 /28)	< LLD (0 /4)	23 24 25 26 27 32 33
SURFACE WATER (PCI/L)	NAI GAMMA	TE-129M	32	1.70E+02	< LLD (0 /28)	< LLD (0 /4)	23 24 25 26 27 32 33
SURFACE WATER (PCI/L)	NAI GAMMA	MO-99	32	1.40E+04	< LLD (0 /28)	< LLD (0 /4)	23 24 25 26 27 32 33
SURFACE WATER (PCI/L)	NAI GAMMA	ZRNB-95	32	7.80E+00	< LLD (0 /28)	< LLD (0 /4)	23 24 25 26 27 32 33
SURFACE WATER (PCI/L)	NAI GAMMA	CS-134	32	7.90E+00	< LLD (0 /28)	< LLD (0 /4)	23 24 25 26 27 32 33
SURFACE WATER (PCI/L)	NAI GAMMA	CO-58	32	8.80E+00	< LLD (0 /28)	< LLD (0 /4)	23 24 25 26 27 32 33

TABLE 19
RADIOLOGICAL ENVIRONMENTAL MONITORING PROGRAM SUMMARY
OYSTER CREEK NUCLEAR GENERATING STATION
MARCH,1981 THROUGH MAY,1981
SECOND QUARTER SUMMARY

SAMPLE TYPE	ANALYSIS	ISOTOPE	NUMBER OF ANALYSES PERFORMED	LLD	INDICATOR-MEAN(N/TOTAL) RANGE	BACKROUND-MEAN(N/TOTAL) RANGE	STATIONS USED FOR INDICATOR MEAN
SURFACE WATER (PCI/L)	NAI GAMMA	MN-54	32	8.00E+00	< LLD (0 /28)	< LLD (0 /4)	23 24 25 26 27 32 33
SURFACE WATER (PCI/L)	NAI GAMMA	TH-232	32	3.10E+01	< LLD (0 /28)	< LLD (0 /4)	23 24 25 26 27 32 33
SURFACE WATER (PCI/L)	NAI GAMMA	FE-59	32	2.10E+01	< LLD (0 /28)	< LLD (0 /4)	23 24 25 26 27 32 33
SURFACE WATER (PCI/L)	NAI GAMMA	CS-136	32	2.60E+01	< LLD (0 /28)	< LLD (0 /4)	23 24 25 26 27 32 33
SURFACE WATER (PCI/L)	NAI GAMMA	TE-132	32	1.30E+03	< LLD (0 /28)	< LLD (0 /4)	23 24 25 26 27 32 33
SURFACE WATER (PCI/L)	NAI GAMMA	ZN-65	32	1.60E+01	< LLD (0 /28)	< LLD (0 /4)	23 24 25 26 27 32 33
SURFACE WATER (PCI/L)	NAI GAMMA	CO-60	32	7.80E+00	< LLD (0 /28)	< LLD (0 /4)	23 24 25 26 27 32 33
SURFACE WATER (PCI/L)	NAI GAMMA	K-40	32	1.20E+02	2.26E+02 (19 /28) (1.30E+02 - 3.10E+02)	2.70E+02(4 /4) (1.60E+02 - 3.50E+02)	23 24 25 26 27 32 33

TABLE 19

RADIOLOGICAL ENVIRONMENTAL MONITORING PROGRAM SUMMARY
OYSTER CREEK NUCLEAR GENERATING STATION
MARCH,1981 THROUGH MAY,1981
SECOND QUARTER SUMMARY

SAMPLE TYPE	ANALYSIS	ISOTOPE	NUMBER OF ANALYSES PERFORMED	LLD	INDICATOR-MEAN(N/TOTAL) RANGE		BACKROUND-MEAN(N/TOTAL) RANGE		STATIONS USED FOR INDICATOR MEAN
SURFACE WATER (PCI/L)	NAI GAMMA	BALA-140	32	2.10E+01	< LLD	(0 /28)	< LLD	(0 /4)	23 24 25 26 27 32 33
SURFACE WATER (PCI/L)	NAI GAMMA	BE-7	7	7.40E+01	< LLD	(0 /6)	< LLD	(0 /1)	23 24 25 26 27 32
SURFACE WATER (PCI/L)	NAI GAMMA	CR-51	32	1.50E+02	< LLD	(0 /28)	< LLD	(0 /4)	23 24 25 26 27 32 33
SURFACE WATER (PCI/L)	NAI GAMMA	RA-226	32	1.60E+01	< LLD	(0 /28)	< LLD	(0 /4)	23 24 25 26 27 32 33
SURFACE WATER (PCI/L)	NAI GAMMA	I-131	32	6.70E+01	< LLD	(0 /28)	< LLD	(0 /4)	23 24 25 26 27 32 33
SURFACE WATER (PCI/L)	NAI GAMMA	NA-22	32	7.90E+00	< LLD	(0 /28)	< LLD	(0 /4)	23 24 25 26 27 32 33
SURFACE WATER (PCI/L)	NAI GAMMA	RU-106	32	8.00E+01	< LLD	(0 /28)	< LLD	(0 /4)	23 24 25 26 27 32 33
SURFACE WATER (PCI/L)	NAI GAMMA	I-133	32	9.30E+00	< LLD	(0 /28)	< LLD	(0 /4)	23 24 25 26 27 32 33

TABLE 19

RADIOLOGICAL ENVIRONMENTAL MONITORING PROGRAM SUMMARY
OYSTER CREEK NUCLEAR GENERATING STATION
MARCH,1981 THROUGH MAY,1981
SECOND QUARTER SUMMARY

SAMPLE TYPE	ANALYSIS	ISOTOPE	NUMBER OF ANALYSES PERFORMED	LLD	INDICATOR-MEAN(N/TOTAL) RANGE	BACKROUND-MEAN(N/TOTAL) RANGE	STATIONS USED FOR INDICATOR MEAN
SURFACE WATER (PCI/L)	MAI GAMMA	CS-137	32	7.88E+00	< LLD (0 /28)	< LLD (0 /4)	23 24 25 26 27 32 33
SURFACE WATER (PCI/L)	RADIUM-226		32	2.15E-01	4.44E-01 (18 /28) (1.31E-01 - 1.33E+00)	1.43E-01(4 /4) (9.27E-02 - 2.42E-01)	23 24 25 26 27 32 33
SURFACE WATER (PCI/L)	RADIUM-228		32	3.09E+00	3.52E-01 (2 /28) (3.24E-01 - 3.81E-01)	< LLD (0 /4)	23 24 25 26 27 32 33
SURFACE WATER (PCI/L)	STRONTIUM-90		31	2.37E+00	1.04E+00 (11 /27) (3.36E-01 - 3.45E+00)	< LLD (0 /4)	23 24 25 26 27 32 33
WELL WATER (PCI/L)	GROSS ALPHA-SS		24	2.90E-01	2.44E-01 (1 /24) (2.44E-01 - 2.44E-01)	. (. /.) (. - .)	1 18 19 20 21 22
WELL WATER (PCI/L)	GROSS ALPHA-DS		24	5.70E+00	2.46E+00 (7 /24) (8.02E-01 - 5.21E+00)	. (. /.) (. - .)	1 18 19 20 21 22
WELL WATER (PCI/L)	GROSS BETA-SS		24	4.65E-01	8.71E-01 (3 /24) (8.46E-01 - 8.92E-01)	. (. /.) (. - .)	1 18 19 20 21 22
WELL WATER (PCI/L)	GROSS BETA-DS		24	7.71E-01	2.83E+00 (24 /24) (9.08E-01 - 8.92E+00)	. (. /.) (. - .)	1 18 19 20 21 22

TABLE 19

RADIOLOGICAL ENVIRONMENTAL MONITORING PROGRAM SUMMARY
OYSTER CREEK NUCLEAR GENERATING STATION
MARCH,1981 THROUGH MAY,1981
SECOND QUARTER SUMMARY

SAMPLE TYPE	ANALYSIS	ISOTOPE	NUMBER OF ANALYSES PERFORMED	LLD	INDICATOR-MEAN(N/TOTAL) RANGE	BACKGROUND-MEAN(N/TOTAL) RANGE	STATIONS USED FOR INDICATOR MEAN
WELL WATER (PCI/L)	POTASSIUM-40		12	8.60E-01	2.30E+00 (12 /12) (4.94E-01 - 7.28E+00)	. (. /.) (. - .)	1 18 19 20 21 22
WELL WATER (PCI/L)	TRITIUM		12	1.79E+02	1.48E+02 (3 /12) (1.24E+02 - 1.87E+02)	. (. /.) (. - .)	1 18 19 20 21 22
WELL WATER (PCI/L)	TOTAL URANIUM		12	5.48E-01	< LLD (0 /12)	. (. /.) (. - .)	1 18 19 20 21 22
WELL WATER (PCI/L)	RADIUM-226		12	1.99E-01	6.36E-01 (9 /12) (1.45E-01 - 1.33E+00)	. (. /.) (. - .)	1 18 19 20 21 22
WELL WATER (PCI/L)	RADIUM-228		12	1.33E+00	1.15E+00 (5 /12) (9.52E-01 - 1.61E+00)	. (. /.) (. - .)	1 18 19 20 21 22
CLAMS (PCI/GM(WET))	GROSS ALPHA		12	2.55E-01	2.68E-01 (9 /9) (6.20E-02 - 6.30E-01)	1.68E-01(3 /3) (7.18E-03 - 3.40E-01)	23 24 25
CLAMS (PCI/GM(WET))	GROSS BETA		12	3.46E-02	1.48E+00 (9 /9) (4.51E-01 - 3.02E+00)	1.26E+00(3 /3) (1.19E-01 - 2.22E+00)	23 24 25
CLAMS (MG/GM(WET))	CALCIUM BY AA		4	1.39E+00	2.51E+03 (3 /3) (1.81E+03 - 3.14E+03)	2.37E+03(1 /1) (2.37E+03 - 2.37E+03)	23 24 25

TABLE 19

RADIOLOGICAL ENVIRONMENTAL MONITORING PROGRAM SUMMARY
OYSTER CREEK NUCLEAR GENERATING STATION
MARCH,1981 THROUGH MAY,1981
SECOND QUARTER SUMMARY

SAMPLE TYPE	ANALYSIS	ISOTOPE	NUMBER OF ANALYSES PERFORMED	LLD	INDICATOR-MEAN(N/TOTAL) RANGE	BACKROUND-MEAN(N/TOTAL) RANGE	STATIONS USED FOR INDICATOR MEAN
CLAMS (PCI/GM(WET))	NAI GAMMA	CE-144	8	1.10E-01	< LLD (0 /6)	< LLD (0 /2)	23 24 25
CLAMS (PCI/GM(WET))	NAI GAMMA	AG-110M	8	3.20E-02	< LLD (0 /6)	< LLD (0 /2)	23 24 25
CLAMS (PCI/GM(WET))	NAI GAMMA	TE-129M	8	8.60E-01	< LLD (0 /6)	< LLD (0 /2)	23 24 25
CLAMS (PCI/GM(WET))	NAI GAMMA	MO-99	8	3.30E+01	< LLD (0 /6)	< LLD (0 /2)	23 24 25
CLAMS (PCI/GM(WET))	NAI GAMMA	ZRNB-95	8	3.10E-02	< LLD (0 /6)	< LLD (0 /2)	23 24 25
CLAMS (PCI/GM(WET))	NAI GAMMA	CS-134	8	3.20E-02	< LLD (0 /6)	< LLD (0 /2)	23 24 25
CLAMS (PCI/GM(WET))	NAI GAMMA	CO-58	8	3.60E-02	< LLD (0 /6)	< LLD (0 /2)	23 24 25
CLAMS (PCI/GM(WET))	NAI GAMMA	MN-54	8	3.20E-02	< LLD (0 /6)	< LLD (0 /2)	23 24 25

TABLE 19

RADIOLOGICAL ENVIRONMENTAL MONITORING PROGRAM SUMMARY
OYSTER CREEK NUCLEAR GENERATING STATION
MARCH,1981 THROUGH MAY,1981
SECOND QUARTER SUMMARY

SAMPLE TYPE	ANALYSIS	ISOTOPE	NUMBER OF ANALYSES PERFORMED	LLD	INDICATOR-MEAN(N/TOTAL) RANGE	BACKROUND-MEAN(N/TOTAL) RANGE	STATIONS USED FOR INDICATOR MEAN
CLAMS (PCI/GM(WET))	NAI GAMMA	TH-232	8	1.40E-01	< LLD (0 /6)	< LLD (0 /2)	23 24 25
CLAMS (PCI/GM(WET))	NAI GAMMA	FE-59	8	9.90E-02	< LLD (0 /6)	< LLD (0 /2)	23 24 25
CLAMS (PCI/GM(WET))	NAI GAMMA	CS-136	8	1.10E-01	< LLD (0 /6)	< LLD (0 /2)	23 24 25
CLAMS (PCI/GM(WET))	NAI GAMMA	TE-132	8	1.30E+00	< LLD (0 /6)	< LLD (0 /2)	23 24 25
CLAMS (PCI/GM(WET))	NAI GAMMA	ZN-65	8	9.70E-02	< LLD (0 /6)	< LLD (0 /2)	23 24 25
CLAMS (PCI/GM(WET))	NAI GAMMA	CO-60	8	4.70E-02	5.70E-02 (3 /6) (3.20E-02 - 1.00E-01)	1.70E-02(1 /2) (1.70E-02 - 1.70E-02)	23 24 25
CLAMS (PCI/GM(WET))	NAI GAMMA	K-40	8	6.20E-01	1.88E+00 (6 /6) (7.70E-01 - 4.30E+00)	2.40E+00(2 /2) (2.00E+00 - 2.80E+00)	23 24 25
CLAMS (PCI/GM(WET))	NAI GAMMA	BALA-140	8	1.10E-01	< LLD (0 /6)	< LLD (0 /2)	23 24 25

TABLE 19
RADIOLOGICAL ENVIRONMENTAL MONITORING PROGRAM SUMMARY
OYSTER CREEK NUCLEAR GENERATING STATION
MARCH,1981 THROUGH MAY,1981
SECOND QUARTER SUMMARY

SAMPLE TYPE	ANALYSIS	ISOTOPE	NUMBER OF ANALYSES PERFORMED	LLD	INDICATOR-MEAN(N/TOTAL) RANGE		BACKROUND-MEAN(N/TOTAL) RANGE		STATIONS USED FOR INDICATOR MEAN
CLAMS (PCI/GM(WET))	NAI GAMMA	BE-7	4	1.10E-01	< LLD	(0 /3)	< LLD	(0 /1)	23 24 25
CLAMS (PCI/GM(WET))	NAI GAMMA	CR-51	8	2.30E-01	< LLD	(0 /6)	< LLD	(0 /2)	23 24 25
CLAMS (PCI/GM(WET))	NAI GAMMA	RA-226	8	6.20E-02	< LLD	(0 /6)	< LLD	(0 /2)	23 24 25
CLAMS (PCI/GM(WET))	NAI GAMMA	I-131	8	2.90E-01	< LLD	(0 /6)	< LLD	(0 /2)	23 24 25
CLAMS (PCI/GM(WET))	NAI GAMMA	NA-22	8	4.70E-02	< LLD	(0 /6)	< LLD	(0 /2)	23 24 25
CLAMS (PCI/GM(WET))	NAI GAMMA	RU-106	8	3.20E-01	< LLD	(0 /6)	< LLD	(0 /2)	23 24 25
CLAMS (PCI/GM(WET))	NAI GAMMA	I-133	8	3.10E-02	< LLD	(0 /6)	< LLD	(0 /2)	23 24 25
CLAMS (PCI/GM(WET))	NAI GAMMA	CS-137	8	4.70E-02	< LLD	(0 /6)	< LLD	(0 /2)	23 24 25

TABLE 19

RADIOLOGICAL ENVIRONMENTAL MONITORING PROGRAM SUMMARY
OYSTER CREEK NUCLEAR GENERATING STATION
MARCH,1981 THROUGH MAY,1981
SECOND QUARTER SUMMARY

SAMPLE TYPE	ANALYSIS	ISOTOPE	NUMBER OF ANALYSES PERFORMED	LLD	INDICATOR-MEAN(N/TOTAL) RANGE	BACKGROUND-MEAN(N/TOTAL) RANGE	STATIONS USED FOR INDICATOR MEAN
CLAMS (PCI/GM(WET))	STRONTIUM-90		8	1.28E-01	< LLD (0 /6)	< LLD (0 /2)	23 24 25
SOIL (PCI/GM(DRY))	GROSS BETA		20	1.16E+00	6.79E+00 (20 /20) (2.25E+00 - 1.26E+01)	. (. /.) (. - .)	1 2 3 4 5
PASTURE (PCI/GM(WET))	GROSS BETA		6	2.84E-02	8.68E+00 (6 /6) (5.00E+00 - 1.31E+01)	. (. /.) (. - .)	28 29 30
PASTURE (MG/GM(WET))	CALCIUM BY AA		6	1.02E+00	2.51E+03 (6 /6) (1.12E+03 - 4.86E+03)	. (. /.) (, - ,)	28 29 30
PASTURE (PCI/GM(WET))	STRONTIUM-90		6	3.56E-02	2.06E-01 (6 /6) (4.39E-02 - 3.55E-01)	. (. /.) (. - .)	28 29 30
SILT (PCI/GM(DRY))	GROSS ALPHA		16	4.85E+00	6.04E+00 (10 /14) (2.86E+00 - 1.05E+01)	2.60E+00(1 /2) (2.60E+00 - 2.60E+00)	23 24 25 26 27 32 33
SILT (PCI/GM(DRY))	GROSS BETA		16	1.17E+00	6.36E+00 (14 /14) (1.84E+00 - 1.54E+01)	9.38E+00(2 /2) (7.86E+00 - 1.09E+01)	23 24 25 26 27 32 33
SILT (PCI/GM(DRY))	GELI GAMMA	CE-144	24	6.60E-01	< LLD (0 /20)	< LLD (0 /4)	23 24 25 32 33

TABLE 19

RADIOLOGICAL ENVIRONMENTAL MONITORING PROGRAM SUMMARY
OYSTER CREEK NUCLEAR GENERATING STATION
MARCH,1981 THROUGH MAY,1981
SECOND QUARTER SUMMARY

SAMPLE TYPE	ANALYSIS	ISOTOPE	NUMBER OF ANALYSES PERFORMED	LLD	INDICATOR-MEAN(N/TOTAL) RANGE	BACKROUND-MEAN(N/TOTAL) RANGE	STATIONS USED FOR INDICATOR MEAN
SILT (PCI/GM(DRY))	GELI GAMMA	AG-110M	24	1.50E-01	< LLD (0 /20)	< LLD (0 /4)	23 24 25 32 33
SILT (PCI/GM(DRY))	GELI GAMMA	TE-129M	24	7.70E+00	< LLD (0 /20)	< LLD (0 /4)	23 24 25 32 33
SILT (PCI/GM(DRY))	GELI GAMMA	MO-99	19	1.40E+01	< LLD (0 /16)	< LLD (0 /3)	21 24 25 32 33
SILT (PCI/GM(DRY))	GELI GAMMA	CS-134	24	1.20E-01	< LLD (0 /20)	< LLD (0 /4)	23 24 25 32 33
SILT (PCI/GM(DRY))	GELI GAMMA	CO-58	24	1.70E-01	< LLD (0 /20)	< LLD (0 /4)	23 24 25 32 33
SILT (PCI/GM(DRY))	GELI GAMMA	MN-54	24	1.40E-01	1.29E-01 (3 /20) (4.80E-02 - 1.80E-01)	< LLD (0 /4)	23 24 25 32 33
SILT (PCI/GM(DRY))	GELI GAMMA	TH-232	24	4.50E-01	4.46E-01 (11 /20) (2.40E-01 - 8.70E-01)	4.87E-01(3 /4) (3.50E-01 - 6.90E-01)	23 24 25 32 33
SILT (PCI/GM(DRY))	GELI GAMMA	FE-59	24	4.40E-01	< LLD (0 /20)	< LLD (0 /4)	23 24 25 32 33

TABLE 19

RADIOLOGICAL ENVIRONMENTAL MONITORING PROGRAM SUMMARY
OYSTER CREEK NUCLEAR GENERATING STATION
MARCH,1981 THROUGH MAY,1981
SECOND QUARTER SUMMARY

SAMPLE TYPE	ANALYSIS	ISOTOPE	NUMBER OF ANALYSES PERFORMED	LLD	INDICATOR-MEAN(N/TOTAL) RANGE	BACKROUND-MEAN(N/TOTAL) RANGE	STATIONS USED FOR INDICATOR MEAN
SILT (PCI/GM(DRY))	GELI GAMMA	CS-136	24	1.00E+00	< LLD (0 /20)	< LLD (0 /4)	23 24 25 32 33
SILT (PCI/GM(DRY))	GELI GAMMA	ZN-65	24	3.10E-01	< LLD (0 /20)	< LLD (0 /4)	23 24 25 32 33
SILT (PCI/GM(DRY))	GELI GAMMA	CO-60	24	1.70E-01	7.23E-01 (12 /20) (3.20E-02 - 2.10E+00)	5.40E-01(1 /4) (5.40E-01 - 5.40E-01)	23 24 25 32 33
SILT (PCI/GM(DRY))	GELI GAMMA	K-40	24	9.30E-01	5.14E+00 (20 /20) (9.20E-01 - 1.30E+01)	9.17E+00(4 /4) (7.10E+00 - 1.10E+01)	23 24 25 32 33
SILT (PCI/GM(DRY))	GELI GAMMA	BE-7	24	1.40E+00	< LLD (0 /20)	< LLD (0 /4)	23 24 25 32 33
SILT (PCI/GM(DRY))	GELI GAMMA	ZR-95	24	3.40E-01	< LLD (0 /20)	< LLD (0 /4)	23 24 25 32 33
SILT (PCI/GM(DRY))	GELI GAMMA	NB-95	24	2.60E-01	1.74E-01 (15 /20) (5.60E-02 - 4.40E-01)	1.17E-01(3 /4) (5.00E-02 - 1.70E-01)	23 24 25 32 33
SILT (PCI/GM(DRY))	GELI GAMMA	SB-125	24	3.00E-01	< LLD (0 /20)	< LLD (0 /4)	23 24 25 32 33

TABLE 19

RADIOLOGICAL ENVIRONMENTAL MONITORING PROGRAM SUMMARY
OYSTER CREEK NUCLEAR GENERATING STATION
MARCH,1981 THROUGH MAY,1981
SECOND QUARTER SUMMARY

SAMPLE TYPE	ANALYSIS	ISOTOPE	NUMBER OF ANALYSES PERFORMED	LLD	INDICATOR-MEAN(N/TOTAL) RANGE	BACKROUND-MEAN(N/TOTAL) RANGE	STATIONS USED FOR INDICATOR MEAN
SILT (PCI/GM(DRY))	GELI GAMMA	CE-141	24	3.00E-01	< LLD (0 /20)	< LLD (0 /4)	23 24 25 32 33
SILT (PCI/GM(DRY))	GELI GAMMA	RU-103	24	2.00E-01	< LLD (0 /20)	< LLD (0 /4)	23 24 25 32 33
SILT (PCI/GM(DRY))	GELI GAMMA	CR-51	24	2.00E+00	< LLD (0 /20)	< LLD (0 /4)	23 24 25 32 33
SILT (PCI/GM(DRY))	GELI GAMMA	BA-140	24	4.00E+00	< LLD (0 /20)	< LLD (0 /4)	23 24 25 32 33
SILT (PCI/GM(DRY))	GELI GAMMA	LA-140	24	8.00E-01	< LLD (0 /20)	< LLD (0 /4)	23 24 25 32 33
SILT (PCI/GM(DRY))	GELI GAMMA	RA-226	24	2.70E-01	3.31E-01 (18 /20) (1.80E-01 - 5.20E-01)	3.25E-01(4 /4) (3.00E-01 - 3.90E-01)	23 24 25 32 33
SILT (PCI/GM(DRY))	GELI GAMMA	I-131	24	4.10E+00	< LLD (0 /20)	< LLD (0 /4)	23 24 25 32 33
SILT (PCI/GM(DRY))	GELI GAMMA	NP-239	8	2.90E+01	< LLD (0 /6)	< LLD (0 /2)	23 24 25 32

TABLE 19

RADIOLOGICAL ENVIRONMENTAL MONITORING PROGRAM SUMMARY
OYSTER CREEK NUCLEAR GENERATING STATION
MARCH,1981 THROUGH MAY,1981
SECOND QUARTER SUMMARY

SAMPLE TYPE	ANALYSIS	ISOTOPE	NUMBER OF ANALYSES PERFORMED	LLD	INDICATOR-MEAN(N/TOTAL) RANGE	BACKROUND-MEAN(N/TOTAL) RANGE	STATIONS USED FOR INDICATOR MEAN
SILT (PCI/GM(DRY))	GELI GAMMA	RU-106	24	1.00E+00	< LLD (0 /20)	< LLD (0 /4)	23 24 25 32 33
SILT (PCI/GM(DRY))	GELI GAMMA	CO-57	24	8.10E-02	< LLD (0 /20)	< LLD (0 /4)	23 24 25 32 33
SILT (PCI/GM(DRY))	GELI GAMMA	CS-137	24	1.40E-01	2.10E-01 (8 /20) (1.20E-01 - 2.80E-01)	1.03E-01(3 /4) (3.10E-02 - 2.00E-01)	23 24 25 32 33

Discussion of REMP Data

A statistical analysis of the REMP data revealed certain environmental media having higher than expected levels of radioactivity. Data comparisons were conducted to determine if correlations existed between facility releases and elevated environmental levels of radioactivity. A discussion of the findings follows:

December 8, 1980

During December, higher than expected concentrations of Potassium -40 were observed at surface water stations 31 and 32. The K-40 concentration at station 31 exceeded the concentration at station 32. Station 31 is a surface water background station which is outside the influence of the plant. In addition, these results are not considered to be plant related as K-40 is a naturally occurring radioactive isotope in estuarine environments.

A surface water sample collected at station 27 had a higher than normal gross beta-dissolved concentration. Station 27 is located in fresh water Oyster Creek (proper) upstream of the plant, consequently this elevated result is not considered to be plant related.

Surface water station 31 exhibited a higher than normal quantity of Ra-228. Station 31 is a surface water background station outside of plant influence therefore this higher than normal concentration is not considered to be plant related.

An elevated concentration of tritium was observed at surface water station 23. This station is located 2.5 miles north of the mouth of the discharge canal. The average tritium concentration from facility liquid releases at the site boundary added to the average tritium concentration at this station does not account for the elevated result. This higher than normal result is not considered to be plant related.

A well water Radium-226 concentration reported at station 18 was found to be higher than normal. Station 18 is located on the plant intake canal. Varying quantities of Radium-226 are found in well water because Radium-226 is a naturally occurring isotope in the subsurface environment. Considering the location of the well and the fact that this isotope occurs naturally it is unlikely that this higher concentration was due to plant operations.

A higher than normal tritium result was observed at well water station 20. The average tritium released via plant liquid releases added to the average level of tritium observed at this station cannot account for the elevated result. This station has a documented history of salt water intrusion and it is believed the higher than average H-3 concentration was due to salt water seeping into this well.

A pasture sample collected at station 30 had a higher than normal gross beta activity. This elevated result was due to an abnormally small aliquot size which was used for sample analysis. This result is not considered to be plant related.

A slightly higher than normal gross beta activity was reported for soil station 5. A gamma isotopic analysis was performed on this sample. From the range of isotopes shown by the isotopic gamma analysis, it can be concluded that the cause of the elevated result was weapons fallout.

February 2, 1981

An elevated gross beta activity was reported for clam station 23. This sampling station is located 2.5 miles north of station 24, which is located at the mouth of Oyster Creek. Comparing the gross beta results of station 23 and station 24, the concentration at station 24 is lower than the concentration detected at station 23. On this basis, assuming normal dilution in Barnegat Bay, it is unlikely that the elevated result reported for station 23 was plant related.

March 2, 1981

A higher than normal gross alpha concentration was observed at clam stations 23 and 25. Sampling station 23 is located 2.5 miles north of the mouth of Oyster Creek, and station 25 is located one mile south of the mouth of Oyster Creek. Station 24 is located in the mouth of Oyster Creek. The alpha concentration reported for station 24 was lower than the reported result of either station 23 or 25. Assuming normal dilution in Barnegat Bay, it is unlikely that these elevated concentrations were the result of plant operations.

An elevated gross beta activity and Potassium-40 concentration were observed at clam station 23. Due to the station location and assuming normal dilution in Barnegat Bay, this anomalous result is not considered to be plant related.

All clam stations exhibited slightly higher than normal concentrations of Cobalt-60. Because the background station result was higher than normal, it is believed that all elevated results were not plant related, but due to fluctuation in ambient environmental levels of Cobalt-60.

A surface water gross alpha-insoluble concentration at station 23 was found to be higher than normal. The calculated gross alpha concentration from liquid releases at the site boundary is far less than the anomalous result. This elevated result is not considered to be plant related. A Radium-228 concentration at station 20 was slightly higher than expected. This well has a documented history of salt water intrusion and it is believed that the elevated Ra-228 concentration is a result of seeping salt water. An elevated gross beta concentration was observed in vegetation at station 5. This elevated concentration was caused by weapons fallout.

March 16, 1981

An air particulate gross beta concentration reported at station 1 was found to be slightly elevated. Weapons fallout and a low sample volume combined to make this result higher than normal.

March 30, 1981

Higher than expected gross beta concentrations were reported at air particulate stations at 1, 2, 3, and C, vegetation at station 1, and soil at station 2. These elevated results were due to weapons fallout and are not considered to be plant related. A gross alpha activity for station 32 was reported to be higher than normal. There were thirteen facility liquid releases during the sample collection period. No alpha activity was released to the environment via liquid release. This higher than normal gross alpha concentration is not considered to be plant related.

A strontium 90 result at surface water station 33 was reported to be slightly higher than expected. The offsite Strontium 90 concentration at the site boundary was calculated to be much lower than the elevated result. It is unlikely that this higher than normal result was facility related.

April 13, 1981

Higher than normal gross beta concentrations were reported at air particulate stations 1, 3, 4, 5, C, and E. These elevated concentrations were the result of weapons fallout and not facility related.

April 27, 1981

Stations 1, 3, A, and C, exhibited higher than expected gross beta concentrations. These elevated results were the result of weapons fallout and not facility related.

May 11, 1981

A higher than normal gross beta concentration was reported at air particulate station 3. This elevated concentration was caused by weapons fallout.

May 26, 1981

An elevated Strontium 90 result was reported at station 32. There were fourteen liquid releases during the sample collection period. The calculated strontium 90 concentration at the offsite boundary is far less than the result reported for station 32. This elevated result is not considered facility related.

Gross beta concentrations reported for air particulate stations 1, 2, 3, 4, 5, A, and C were higher than expected. These elevated results were due to weapons fallout and not considered plant related.

RADIOLOGICAL IMPACT ON MAN

Environmental monitoring results for the period 12/80 - 5/81 indicate that intakes of Oyster Creek effluent isotopes did not exceed 1% of the intakes equivalent to exposure at 10CFR20, Appendix B, Table II concentrations.

During winter and spring months, inhalation is the only intake pathway for gaseous effluent isotopes. The pathways available for liquid effluent isotopes are fish and shellfish consumption.

Several isotopes were present in air samples collected in early spring in concentrations slightly exceeding minimum detectable concentration. These isotopes -- Ru-103, Zr-95, Nb-95, Ce-141 and Ce-144 are fission products produced in power reactor operations but are also products of atmospheric nuclear weapons tests. The small quantities released from Oyster Creek suggest that weapons tests are the source of the material measured. The uniform distribution of the isotopes over the whole array of air sampling locations, including those distant from the plant, also indicate that weapons testing is the source. Nonetheless, the measured concentrations were low and for purposes of estimating upper limits to intake of isotopes through inhalation, contributions from those isotopes were based on measured values.

Concentrations of plant effluent isotopes in clams were below minimum detectable concentrations for all isotopes except Co-60. Because these minimum detectable concentrations are low, it was possible to simplify the analysis by conservatively assuming that plant effluent isotopes other than Co-60 were present at minimum detectable concentrations. Measured values of Co-60 were below 0.1 pCi/gram.

Intakes from inhalation, fish ingestion, and shellfish ingestion were estimated from air and clam sample results. (Fish concentrations were estimated from clam measurements.) Intakes were less than 1% of intakes equivalent to exposure to concentrations in 10CFR20, Appendix B, Table II.

The U.S. EPA regulation 40 CFR190 requires that doses to any real person from certain uranium fuel cycle activities will not exceed in one year 25 mrem for the whole body and other organs except that 75 mrem is the limit for the thyroid. The regulation applies to nuclear power plants. Since there is no other uranium fuel cycle activity likely to contribute doses that are a significant fraction of the EPA limit to people in the vicinity of Oyster Creek, it may be assumed for purposes of this assessment that the full limits apply to Oyster Creek.

The doses equivalent to intakes equivalent to that from 1% of 10CFR20, Appendix B, Table II limits are 5 mrem/yr for the whole body and 15 mrem/yr for other internal organs except for 30 mrem/yr for the bone and the thyroid as recommended in ICRP2. (Concentration limits for I-131 and Sr-80 and Sr-90 reflect Federal Radiation Council guidance and equivalent doses are lower than ICRP recommendations.) The analyses herein shows that the doses from food pathways fall below 40 CFR190 limits by a wide margin. Measurements from

the thermoluminescent dosimeters show no clear contribution of plant effluents to direct radiation dose and indicate that any contribution does not exceed about five mrem. Therefore, it is clear that 40CFR190 dose limits were met in the period under consideration.