

GPU NUCLEAR CORPORATION
OYSTER CREEK NUCLEAR GENERATING STATION
EFFLUENT RELEASE REPORT
1982-1

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SUMMARY

1982-1 SEMIANNUAL EFFLUENT RELEASE REPORT

The 1982-1 Semiannual Effluent Release Report is routinely submitted to the United States Nuclear Regulatory Commission (NRC) every six months. The report is submitted to the Commission in accordance with the Oyster Creek Nuclear Generating Station (OCNGS) Technical Specifications. It summarizes the liquid, gaseous, and solid wastes generated by the facility. In addition, it discusses the environmental monitoring efforts undertaken to determine the effects of such releases to the environment. In order to accomplish this purpose, the OCNGS maintains an extensive radiological environmental monitoring program. This program samples various environmental media such as air, sediment, surface water, well water, soil, precipitation, vegetation, and shellfish. These media are sampled on a routine basis at various frequencies and locations. The magnitude of effort to accomplish this study is in excess of four man years and at a cost exceeding \$200,000.00. This report concludes that exposures to man from OCNGS radioactive effluents are well below the federal limits contained in Title 10, Part 20 of the Code of Federal Regulations and are considered by the Commission to be within acceptable limits in protecting the health and welfare of the public.

For clarity, the report is organized into three parts. Part one (Section I) provides a summary of plant operations for the reporting period. OCNGS operated approximately 81 days between December through June. Part two (Section II) summarizes the meteorological data and effluents released from the facility. It itemizes releases of 12,200 curies of fission and

activation gases, 2.1 curies of Tritium, less than 1 curie of non-particulate halogens, and approximately .2 curies of particulates. In addition to these gaseous releases, 4 curies of liquid effluents were discharged and approximately 3,000 curies of radioactive wastes were shipped offsite as solid wastes. These releases are similar to or less than releases of nuclear plants of comparable type, age, and size. The report underscores the fact that all effluents released were within the regulatory requirements of OCNGS Technical Specifications. Part three (Section III) summarizes the results of the Radiological Environmental Monitoring Program (REMP). This section concludes that no radioactive levels in the environment were attributable to facility operations. Natural radioactivity and weapon testing fallout were considered the causes of slightly higher than background readings, where detected. All levels of radioactivity in the environment fall well within the acceptable levels considered by the Commission to safeguard the health and welfare of the general public.

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I. INTRODUCTION

I. INTRODUCTION

The Oyster Creek Nuclear Generating Station has generated electricity since December, 1969. The operating license permits station operation up to a power level of 1930 megawatts (thermal) at a levelized, installed annual capacity of 620 megawatts (electrical). A more detailed description of the facility can be obtained from the Final Environmental Statement.

This report is submitted in accordance with Section 6.9.3 of the Technical Specifications - Appendix A of the Oyster Creek Unit Number 1 Provisional Operating License, DPR-16. Section I includes a brief summary of the plant status from December 1, 1981 through June 30, 1982. This summary reports dates of reactor scrams, controlled reactor shutdowns, reactor startups, and selected reactor power levels.

Section II follows the format of USNRC Regulatory Guide 1.21 for the provision of summaries of OCNGS gaseous effluents, liquid effluents and solid waste offsite shipments. In addition, this section provides information on meteorological data for the reporting period of December 1, 1981 through June 30, 1982. A description of the meteorological data collection system is provided, as well as joint frequency distribution tables for the various stability classes (in USNRC Regulatory Guide 1.21 format) and cumulative monthly wind roses.

Section III provides a summary of the Oyster Creek Radiological Environmental Monitoring Program and its associated sampling data for the reporting period as required by section 4.6.B.(3) of the Technical Specifications - Appendix A. Radiological Environmental data are presented as recommended in USNRC Regulatory Guide 4.8. This section also correlates plant effluent releases to radiological environmental data.

PLANT OPERATIONS SUMMARY

December 1, 1981	Operating at Approximately 95% Rated Power
December 10, 1981	Reactor Shutdown
December 15, 1981	Reactor Shutdown - Continued
January 1, 1982	Reactor Shutdown - Continued
January 15, 1982	Reactor Shutdown - Continued
February 1, 1982	Reactor Shutdown - Continued
February 15, 1982	Reactor Shutdown - Continued
March 1, 1982	Reactor Shutdown - Continued
March 15, 1982	Reactor Shutdown - Continued
April 1, 1982	Reactor Shutdown - Continued
April 15, 1982	Reactor Startup
April 17, 1982	Reactor Scram
April 18, 1982	Reactor Startup
May 1, 1982	Operating at Approximately 63% Rated Power
May 15, 1982	Operating at Approximately 62% Rated Power
May 24, 1982	Reactor Shutdown
May 27, 1982	Reactor Startup
June 1, 1982	Operating at Approximately 63% Rated Power
June 4, 1982	Reactor Scram
June 5, 1982	Reactor Startup
June 15, 1982	Operating at Approximately 76% Rated Power
June 30, 1982	Operating at Approximately 75% Rated Power

II. EFFLUENT AND WASTE DISPOSAL SUMMARY

EFFLUENT AND WASTE DISPOSAL SUMMARY

A. Gaseous Effluents

During the reporting period, January 1, 1982 through June 30, 1982 a total of 1.22 E4 curies of fission and activation gases, 7.24 E-1 curies of non-particulate halogens (iodines) with half-lives greater than eight days, 1.21 E-1 curies of particulates with half-lives greater than eight days, and 2.08 curies of tritium were released. Totals include effluents released from both the elevated stack and the ground-level radwaste vent. The maximum hourly release rate of gross activity from the stack was 6.24 E3 microcuries per second which occurred at approximately 0400 hours on May 31, 1982. The airborne releases are summarized in Tables 1 through 4.

B. Liquid Effluents

A total of 1.45 E7 liters of water was processed through the radwaste system. Of this, 1.49 E6 liters containing 3.98 curies of activity were released to the environment. The maximum concentration of gross radioactivity (beta-gamma) released to the unrestricted area (average over the period of release) was 1.05 E-7 microcuries per milliliter on June 12, 1982, as documented in RO 50-219/82-16/03L. The liquid releases are summarized in Tables 5 and 6.

C. Solid

During the reporting period, a total volume of 4.27 E2 cubic meters of solid waste containing 2.92 E3 curies of activity was shipped off site in 57 shipments. No irradiated material was shipped. The solid waste shipments are summarized in Table 7.

D. Meteorological Data

During the reporting period, onsite meteorological conditions were monitored and recorded. Joint frequency distribution of 116 meter (380 feet) and 10 meter (33 feet) wind speed and direction per atmospheric stability class per quarter is summarized. Also included are cumulative monthly and seven-month wind roses for 10 meter (33 feet), 46 meter (150 feet), and 116 meter (380 feet). The meteorological data are summarized in Tables 8 through 14.

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

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

b. Iodines and particulates, halflives > 8 days:

Technical Specification 3.6.A2

4 uCi/sec

c. Liquid Effluents:

Technical Specification 3.6.B.1

Maximum permissible concentrations,

Appendix B, Table II, Column 2

of 10 CFR 20.

2. Maximum Permissible Concentrations (MPC)

a. Fission and Activation Gases:

1. First Quarter - (Reactor Shutdown)

2. Second Quarter - 2.79 E-3 uCi/cc

b. Iodines and Particulates:

1. First Quarter - 4.21 E-8 uCi/cc

2. Second Quarter - 4.21 E-8 uCi/cc

c. Liquid Effluents:

From Appendix B, Table II, Column 2, of

10 CFR 20.

(NOTE: MPC's for isotopes detected listed below)

Unit - uCi/ml

H-3	3 E-3	Sr-90	3 E-7
Cr-51	2 E-3	Xe-133	3 E-6
Mn-54	1 E-4	Cs-137	2 E-5
Co-58	1 E-4	Ce-144	1 E-5
Co-60	5 E-5	Np-239	1 E-6
Sr-89	3 E-6		

3. Average Energy

- a. First Quarter - (Reactor Shutdown)
- b. Second Quarter - 8.05 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 using 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 using gamma ray spectrometry with a GeLi Detector, low background beta counter, internal proportional beta counter, and a single channel gamma counter.

d. Liquid Effluents:

Analysis per batch release using gamma ray spectrometry with a GeLi Detector, a low background beta counter, and a liquid scintillation counter.

Analysis of Error Associated with the Measurement of Radioactive Materials in Effluents and Solid Wastes
Effluents

All stages of the production of effluent estimates have been assigned an upwardly conservative error potential. Stages include sample collection, radiochemical analysis, and compilation of the effluent estimation process. The use of these error factors assures that facility effluents will not be underestimated.

Solid Waste

The process by which the levels of radioactive materials in solid wastes are estimated is one which requires conservatism throughout. Representative sample analyses and/or surface contamination surveys are combined with estimates of waste volume to provide the level of radioactive materials in solid wastes. Upwardly conservative

techniques are used in all phases of this process to assure that the amount of radioactive material in solid wastes are not underestimated.

5. Batch Releases

a. Liquid

1. Number of batch releases:
 - a. First Quarter - 19 releases
 - b. Second Quarter - 3 releases
2. Total time period for batch releases:
 - a. First Quarter - 2.77 E3 minutes
 - b. Second Quarter - 3.26 E2 minutes
3. Maximum time period for a batch release:
 - a. First Quarter - 2.25 E2 minutes
 - b. Second Quarter - 1.21 E2 minutes
4. Average time period for a batch release:
 - a. First Quarter - 1.46 E2 minutes
 - b. Second Quarter - 1.09 E2 minutes
5. Minimum time period for a batch release:
 - a. First Quarter - 4.50 E1 minutes
 - b. Second Quarter - 8.50 E1 minutes
6. Average stream flow during periods of release of effluent in a flowing stream:
 - a. First Quarter - 2.12 E9 liters/minute
 - b. Second Quarter - 1.97 E9 liters/minute

6. Abnormal Releases

a. Liquid

1. Number of releases:

One

2. Total activity released:

7.05 E-2 curies as documented in RO 50-219/82-16/03L,
dated July 14, 1982.

b. Gaseous

1. Number of releases:

None

2. Total Activity released:

Not Applicable

TABLE 1
EFFLUENT AND WASTE DISPOSAL SEMIANNUAL REPORT 1982-1
GASEOUS EFFLUENTS-SUMMATION OF ALL RELEASES

	Unit	First Quarter	Second Quarter	Est. Total Error %
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A. Fission & activation gases

1. Total release	Ci	< MDL	1.22 E4	3.0 E1
2. Average release rate for period	μCi/sec	-	1.95 E3	
3. Percent of Tech Spec limit	%	-	7.36 E-1	

B. Iodines

1. Total iodine-131	Ci	3.75 E-4	7.24 E-1	2.5 E1
2. Average release rate for period	μCi/sec	4.82 E-5	9.23 E-2	
3. Percent of Tech Spec limit	%	6.03 E-3*	2.69 *	

C. Particulates

1. Particulates with half-lives >8 days	Ci	1.50 E-3	1.19 E-1	2.5 E1
2. Average release rate for period	μCi/sec	1.93 E-4	1.52 E-2	
3. Percent of Tech Spec limit	%	6.03 E-3*	2.69 *	
4. Gross alpha radioactivity	Ci	1.59 E-5	7.90 E-6	

D. Tritium

1. Total release	Ci	1.66	4.19 E-1	4.0 E1
2. Average release rate for period	μCi/sec	2.13 E-1	5.34 E-2	

*Percent of Tech Spec Limit for Iodines and Particulates as Required by
Technical Specification 3.6.A.2

TABLE 2
EFFLUENT AND WASTE DISPOSAL SEMIANNUAL REPORT 1982-1
GASEOUS EFFLUENTS-ELEVATED RELEASE

CONTINUOUS MODE

Nuclides Released	Unit	First Quarter	Second Quarter		MDL uCi/cc
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1. Fission gases

krypton-85m	Ci	< MDL	4.68 E2		1.50 E-4
krypton-87	Ci	< MDL	1.79 E3		5.68 E-4
krypton-88	Ci	< MDL	1.48 E3		4.32 E-4
xenon-133	Ci	< MDL	3.12 E2		1.08 E-4
xenon-135	Ci	< MDL	2.93 E3		1.16 E-4
xenon-135m	Ci	< MDL	1.07 E3		9.31 E-4
xenon-138	Ci	< MDL	3.43 E3		1.26 E-3
others					
krypton-89	Ci	< MDL	< MDL		2.66 E-2
xenon-133m	Ci	< MDL	< MDL		9.85 E-4
xenon-137	Ci	< MDL	6.84 E2		3.99 E-1
Total for period	Ci	-	1.22 E4		

2. Iodines

Iodine-131	Ci	3.74 E-4	7.24 E-1		3.13 E-13
Iodine-133	Ci	2.17 E-5	2.80		6.50 E-13
Iodine-135	Ci	< MDL	4.27		5.01 E-12
Total for period	Ci	3.96 E-4	7.79		

TABLE 3
EFFLUENT AND WASTE DISPOSAL SEMIANNUAL REPORT 1982-1
GASEOUS EFFLUENTS - ELEVATED RELEASE

Nuclides Released	Unit	First Quarter	Second Quarter		MDL uCi/cc
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3. Particulates

Strontium-89	Ci	6.21 E-4	7.90 E-3		8.58 E-15
Strontium-90	Ci	1.22 E-5	3.69 E-4		2.13 E-15
Cesium-137	Ci	1.94 E-4	4.11 E-4		3.55 E-13
Barium-140	Ci	< MDL	8.74 E-2		1.56 E-12
Lanthanum-140	Ci	< MDL	4.47 E-2		6.45 E-13
Others					
Manganese-54	Ci	6.35 E-5	1.21 E-2		6.14 E-13
Cobalt-57	Ci	< MDL	7.64 E-6		1.13 E-13
Cobalt-58	Ci	< MDL	1.99 E-3		6.17 E-13
Iron-59	Ci	< MDL	1.07 E-3		1.08 E-12
Cobalt-60	Ci	5.66 E-4	1.04 E-3		6.14 E-13
Strontium-91	Ci	< MDL	1.23 E-1		1.41 E-12
Molybdenum-99	Ci	< MDL	6.25 E-3		2.46 E-12
Technetium-99m	Ci	< MDL	2.23 E-2		2.09 E-13
Iodine-131	Ci	< MDL	5.33 E-3		2.19 E-13
Iodine-133	Ci	< MDL	7.99 E-2		3.69 E-13
Iodine-135	Ci	< MDL	2.13 E-1		2.21 E-12
Cerium-141	Ci	< MDL	1.37 E-3		3.56 E-13
Cerium-144	Ci	4.46 E-5	4.30 E-4		1.62 E-12
Neptunium-239	Ci	< MDL	3.16 E-3		4.47 E-13
No other isotopes identified.					
TOTAL	Ci	1.50 E-3	6.12 E-1		

TABLE 4
EFFLUENT AND WASTE DISPOSAL SEMIANNUAL REPORT 1982-1
GASEOUS EFFLUENTS - GROUND LEVEL RELEASES

Nuclides Released	Unit	First Quarter	Second Quarter		MDL uCi/cc
1. Fission Gases					
Total	Ci	< MDL	< MDL		
2. Iodines					
Iodine-131	Ci	5.99 E-7	5.51 E-7		7.07 E-14
Iodine-133	Ci	< MDL	1.09 E-6		1.47 E-13
Iodine-135	Ci	< MDL	< MDL		1.13 E-12
Total	Ci	5.99 E-7	1.64 E-6		
3. Particulates					
Cobalt-60	Ci	2.61 E-7	3.34 E-6		1.38 E-13
Strontium-89	Ci	< MDL	< MDL		1.08 E-14
Strontium-90	Ci	< MDL	< MDL		7.04 E-15
Technetium-99m	Ci	< MDL	5.13 E-7		7.21 E-14
Iodine-131	Ci	< MDL	4.21 E-8		5.04 E-14
Iodine-133	Ci	< MDL	4.93 E-7		9.88 E-14
Cesium-137	Ci	1.77 E-8	2.54 E-7		8.02 E-14
Barium-140	Ci	< MDL	2.68 E-7		3.58 E-13
Neptunium-239	Ci	< MDL	2.81 E-7		9.31 E-14
No other isotopes identified.					
Total	Ci	2.79 E-7	5.19 E-6		

TABLE 5
EFFLUENT AND WASTE DISPOSAL SEMIANNUAL REPORT 1982-1
LIQUID EFFLUENTS-SUMMATION OF ALL RELEASES

	Unit	First Quarter	Second Quarter	Est. Total Error %
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A. Fission and activation products

1. Total releases (not including tritium, gases, alpha)	Ci	9.93 E-3	7.09 E-2	3.0 E1
2. Average diluted concentration during period	μCi/ml	3.56 E-10	7.38 E-10	
3. Percent of applicable limit	%	6.68 E-4	1.36 E-3	

B. Tritium

1. Total release	Ci	3.53	3.69 E-1	3.0 E1
2. Average diluted concentration during period	μCi/ml	1.26 E-7	3.84 E-9	
3. Percent of applicable limit	%	4.21 E-3	1.28 E-4	

C. Dissolved and entrained gases

1. Total release	Ci	< MDL	1.45 E-5	3.0 E1
2. Average diluted concentration during period	μCi/ml	-	1.51 E-13	
3. Percent of applicable limit	%	-	5.03 E-6	

D. Gross alpha radioactivity

1. Total release	Ci	8.47 E-6	7.98 E-6	3.0 E1
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E. Volume of waste released (prior to dilution)	liters	1.31 E6	1.79 E5	1.0 E1
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F. Volume of dilution water used during period	liters	1.05 E11	3.61 E11	1.0 E1
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TABLE 6
EFFLUENT AND WASTE DISPOSAL SEMIANNUAL REPORT 1982-1
LIQUID EFFLUENTS

BATCH RELEASE

Nuclides Released	Unit	First Quarter	Second Quarter		MDL uCi/ml
Strontium-89	Ci	< MDL	< MDL		1.12 E-8
Strontium-90	Ci	< MDL	< MDL		5.40 E-8
Cesium-134	Ci	< MDL	< MDL		4.98 E-7
Cesium-137	Ci	9.33 E-5	< MDL		5.40 E-7
Iodine-131	Ci	< MDL	< MDL		3.35 E-7

Chromium-51	Ci	7.35 E-5	< MDL		2.77 E-6
Manganese-54	Ci	2.09 E-3	1.08 E-2		8.95 E-7
Cobalt-58	Ci	2.76 E-5	< MDL		8.99 E-7
Iron-59	Ci	< MDL	< MDL		1.58 E-6
Cobalt-60	Ci	7.55 E-3	6.01 E-2		8.95 E-7
Zinc-65	Ci	< MDL	< MDL		1.76 E-6

Cerium-144	Ci	9.72 E-5	< MDL		5.85 E-6
Neptunium-239	Ci	< MDL	2.66 E-5		1.03 E-6
No other nuclides identified.					
Total	Ci	9.93 E-3	7.09 E-2		

Xenon-133	Ci	< MDL	1.45 E-5		7.21 E-7
No other nuclides identified					
Total	Ci	< MDL	1.45 E-5		

TABLE 7
EFFLUENT AND WASTE DISPOSAL SEMIANNUAL REPORT 1982-1
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 Ci	2.20 E2 2.89 E3	5.0 E1
b. Drycompressible waste, contaminated equip., etc.	m ³ Ci	2.07 E2 2.78 E1	5.0 E1
c. Irradiated components, control rods, etc.	m ³ Ci	NONE	
d. Other (describe)	m ³ Ci	NONE	

2. Estimate of major nuclide composition (by type of waste)	Percentage	Activity (Ci)	MDL uCi/ml
a. Cobalt-60	4.81 E1	1.39 E3	1.65 E-4
Cesium-137	1.74 E1	5.03 E2	9.19 E-5
Strontium-89	1.48 E1	4.28 E2	1.12 E-8
Manganese-54	1.07 E1	3.09 E2	1.65 E-4
Cesium-134	3.03	8.76 E1	8.47 E-5
b. Cobalt-60	6.35 E1	1.77 E1	
Manganese-54	2.02 E1	5.62	
Iron-59	2.09	5.81 E-1	
Cesium-137	1.64	4.56 E-1	
Barium-140	1.21	3.36 E-1	
c.			
d.			

3. Solid Waste Disposition Number of Shipments	Mode of Transportation	Destination
49	MOTOR VEHICLE	BARNWELL, SC
8	MOTOR VEHICLE	RICHLAND, WA

B. Irradiated Fuel Shipments (Disposition)

Number of Shipments	Mode of Transportation	Destination
NONE		

Meteorological Data

The Oyster Creek Nuclear Generating Station obtains meteorological data from a meteorological tower maintained by GPU Nuclear. The tower is located approximately due west-north-west of the site at a distance of 2529 feet from the stack. The tower is 400 feet tall (elevation of the top of the tower is approximately +424 feet MSL). The instruments are located on the tower in the following groupings:

<u>INSTRUMENT HEIGHT ABOVE LAND SURFACE</u>

<u>INSTRUMENTS FOR MEASURING</u>

33'

Wind Speed Wind Direction Temperature Dew Point
--

150'

Wind Speed Wind Direction Temperature

380'

Wind Speed Wind Direction Temperature Dew Point
--

To assure a high rate of data recovery, redundant instrumentation is located at both the 33' and 380' levels. All readings are continuously dumped to a computer and recorded on strip chart recorders at the base of the tower. In addition, the Oyster Creek control room records the following parameters: 380' level wind speed and direction, 33' level temperature, and temperature difference (ΔT) between the 380' and 33' levels.

The flow of meteorological data from the meteorological tower to associated equipment is illustrated in Figure 1. The classification scheme for atmospheric stability is listed in Table 8.

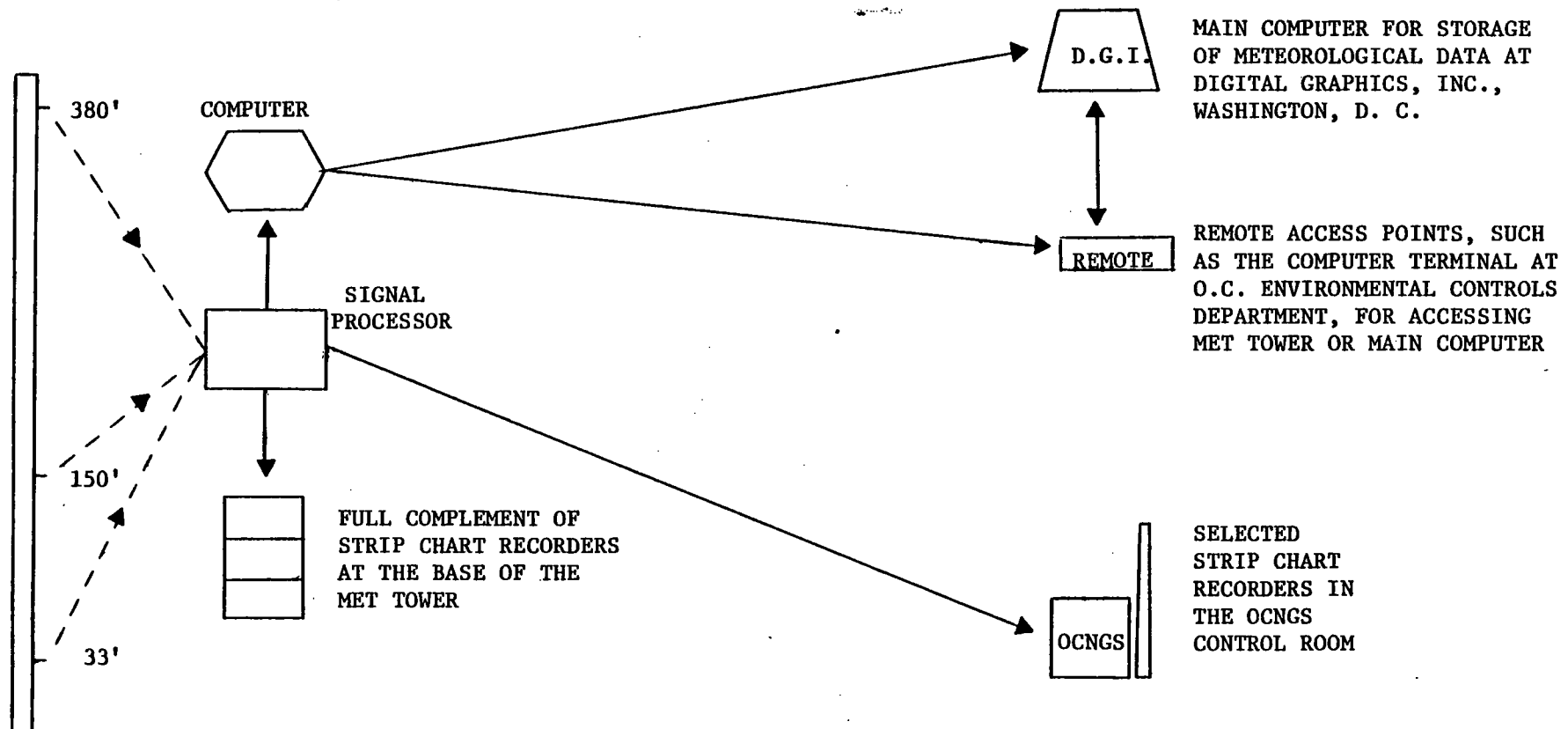
Data for Reporting Period

Tables 9 through 14 present Joint Frequency distribution tables for the various stability classes in the manner described in USNRC Regulatory Guide 1.21. Also provided in Figures 2 through 25, are cumulative monthly and seven-month wind roses for all instrument levels for the reporting period.

FIGURE 1

GPU NUCLEAR CORPORATION
OYSTER CREEK NUCLEAR GENERATING STATION

METEOROLOGICAL DATA: SCHEMATIC DIAGRAM OF SYSTEM COMPONENTS AND INFORMATION FLOW



400' METEOROLOGICAL TOWER WITH
INSTRUMENT TRANSMITTERS AT 3 LEVELS,
SIGNAL PROCESSORS, COMPUTER,
AND ALL STRIP CHART RECORDERS AT
BASE.

TABLE 8

CLASSIFICATION OF ATMOSPHERIC STABILITY

Stability Classification	Pasquill Categories	σ_{θ}^a (degrees)	Temperature change with height ($^{\circ}\text{C}/100\text{m}$)
Extremely unstable	A	25.0	<-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	>4.0

^a Standard deviation of horizontal wind direction fluctuation over a period of 15 minutes to 1 hour. The values shown are average for each stability classification.

TABLE 9

Oyster Creek Meteorological Tower Joint Frequency Tables of Wind Speed and
Wind Direction 380ft versus Delta Temperature 380-33ft for the Period 1/1/82 - 3/31/82
(First Quarter)

HOURS AT EACH WIND SPEED AND DIRECTION
PERIOD OF RECORD- 82010101-82033184
STABILITY CLASS: A
ELEVATION: SPEED:SPD380 DIRECTION:DIR380 LAPSE:DT380

WIND SPEED(MPH)

WIND DIRECTION	1-3	4-7	8-12	13-18	19-24	>24	TOTAL
N	0	0	0	0	0	0	0
NNE	0	0	0	0	0	0	0
NE	0	0	0	5	0	0	5
ENE	0	1	4	4	0	0	9
E	0	0	2	0	0	0	2
ESE	0	0	1	1	0	0	2
SE	0	0	1	2	0	0	3
SSE	0	0	0	0	0	0	0
S	1	0	0	1	1	0	3
SSW	0	1	0	1	0	0	2
SU	0	2	0	1	0	0	3
USU	0	1	2	1	0	0	4
U	0	1	0	2	0	4	7
UNW	0	0	4	4	17	12	37
NW	0	0	0	2	7	1	17
NNW	0	0	0	1	2	1	4
VARIABLE	0	0	0	0	0	0	0

TOTAL 82
PERIODS OF CALM(HOURS): 0
HOURS OF MISSING DATA: 815

HOURS AT EACH WIND SPEED AND DIRECTION
PERIOD OF RECORD- 82010101-82033184
STABILITY CLASS: B
ELEVATION: SPEED:SPD380 DIRECTION:DIR380 LAPSE:DT380

WIND SPEED(MPH)

WIND DIRECTION	1-3	4-7	8-12	13-18	19-24	>24	TOTAL
N	0	0	0	0	0	0	0
NNE	0	0	1	0	0	0	1
NE	0	0	0	1	0	0	1
ENE	0	0	1	1	0	0	2
E	0	0	0	0	0	0	0
ESE	0	1	3	0	0	0	4
SE	0	0	0	0	0	0	0
SSE	0	0	1	0	0	0	1
S	0	0	0	2	1	0	3
SSW	0	0	0	1	0	0	1
SU	0	0	0	0	0	0	0
USU	0	0	1	1	0	0	2
U	0	0	0	1	0	5	6
UNW	0	0	2	3	3	2	10
NW	0	0	1	2	5	1	9
NNW	0	0	0	1	1	0	2
VARIABLE	0	0	1	0	0	0	1

TOTAL 48
PERIODS OF CALM(HOURS): 0
HOURS OF MISSING DATA: 815

TABLE 9 (Continued)

HOURS AT EACH WIND SPEED AND DIRECTION
 PERIOD OF RECORD- 82010101-82033124
 STABILITY CLASS: C
 ELEVATION: SPEED:SPD380 DIRECTION:DIR380 LAPSE:DT380
 WIND SPEED(MPH)

WIND DIRECTION	1-3	4-7	8-12	13-18	19-24	>24	TOTAL
N	0	0	1	1	1	0	3
NNE	0	1	0	0	0	0	1
NE	0	1	0	0	0	0	1
ENE	0	0	0	3	0	0	3
E	0	0	0	0	0	0	0
ESE	0	0	0	0	0	0	0
SE	0	0	1	0	0	0	1
SSE	0	0	1	0	0	0	1
S	0	0	0	1	1	1	3
SSW	0	0	1	1	1	0	3
SU	0	0	0	1	0	0	1
USU	0	0	0	1	1	0	2
U	0	0	0	2	2	2	6
UNU	0	0	5	6	4	10	25
NU	0	1	2	6	4	0	13
NNU	0	0	2	2	9	1	14
VARIABLE	0	0	0	0	0	0	0

TOTAL 77
 PERIODS OF CALM(HOURS): 0
 HOURS OF MISSING DATA: 215

HOURS AT EACH WIND SPEED AND DIRECTION
 PERIOD OF RECORD- 82010101-82033124
 STABILITY CLASS: D
 ELEVATION: SPEED:SPD380 DIRECTION:DIR380 LAPSE:DT380
 WIND SPEED(MPH)

WIND DIRECTION	1-3	4-7	8-12	13-18	19-24	>24	TOTAL
N	3	6	18	17	2	0	46
NNE	0	5	12	12	8	4	41
NE	1	4	6	27	7	24	69
ENE	0	2	5	7	4	4	22
E	0	3	9	9	1	1	23
ESE	0	6	5	4	2	0	17
SE	0	6	4	1	0	2	13
SSE	0	3	2	3	6	1	15
S	0	1	2	12	10	2	33
SSW	0	1	2	14	12	14	43
SU	0	1	7	12	13	2	35
USU	0	0	7	6	7	3	23
U	0	6	7	18	14	22	64
UNU	0	4	14	22	28	33	101
NU	0	3	14	26	26	9	78
NNU	0	6	13	20	11	1	51
VARIABLE	0	0	0	0	0	0	0

TOTAL 674
 PERIODS OF CALM(HOURS): 0
 HOURS OF MISSING DATA: 215

TABLE 9 (Continued)

HOURS AT EACH WIND SPEED AND DIRECTION
 PERIOD OF RECORD- 82010101-82033124
 STABILITY CLASS: E
 ELEVATION: SPEED:SPD300 DIRECTION:DIR300 LAPSE:DT300

 WIND SPEED(MPH)

WIND DIRECTION	1-3	4-7	8-12	13-18	19-24	>24	TOTAL
N	3	4	14	13	8	1	43
NNE	0	5	4	7	1	8	25
NE	1	1	6	6	6	5	25
ENE	0	4	7	3	4	7	25
E	0	7	5	7	4	6	29
ESE	1	1	7	8	3	29	49
SE	0	1	1	5	9	7	23
SSE	0	3	1	5	3	1	13
S	0	4	6	2	12	6	30
SSW	1	2	8	5	15	4	35
SU	0	1	5	21	22	8	57
USW	0	1	5	18	16	3	43
U	0	0	1	13	24	13	51
UNW	0	1	14	40	37	5	97
NW	1	2	10	31	33	11	88
NNW	0	3	8	21	22	3	57
VARIABLE	3	0	0	0	0	0	3

TOTAL 628
 PERIODS OF CALM(HOURS): 0
 HOURS OF MISSING DATA: 215

HOURS AT EACH WIND SPEED AND DIRECTION
 PERIOD OF RECORD- 82010101-82033124
 STABILITY CLASS: F
 ELEVATION: SPEED:SPD300 DIRECTION:DIR300 LAPSE:DT300

 WIND SPEED(MPH)

WIND DIRECTION	1-3	4-7	8-12	13-18	19-24	>24	TOTAL
N	0	0	4	8	1	0	13
NNE	1	1	2	0	0	0	13
NE	0	3	7	2	0	0	12
ENE	0	2	2	2	0	0	6
E	0	2	6	3	0	0	11
ESE	0	1	0	0	1	1	3
SE	0	0	0	2	0	0	2
SSE	0	0	0	0	0	0	0
S	0	0	0	0	1	0	1
SSW	0	0	4	0	1	3	8
SU	0	3	5	8	14	3	33
USW	0	2	4	3	7	7	23
U	0	1	2	10	13	0	26
UNW	0	0	0	16	11	9	36
NW	0	0	2	10	9	5	26
NNW	0	0	3	8	14	1	26
VARIABLE	0	0	0	0	0	0	0

TOTAL 239
 PERIODS OF CALM(HOURS): 0
 HOURS OF MISSING DATA: 215

TABLE 9 (Continued)

HOURS AT EACH WIND SPEED AND DIRECTION
 PERIOD OF RECORD- 82010101-82033124
 STABILITY CLASS: 0
 ELEVATION: SPEED:SPD380 DIRECTION:DIR380 LAPSE:DT380
 WIND SPEED(MPH)

WIND DIRECTION	1-3	4-7	8-12	13-18	19-24	>24	TOTAL
N	0	0	0	1	0	0	1
NNE	0	1	4	1	0	0	6
NE	0	2	4	0	0	0	6
ENE	0	0	7	6	0	0	13
E	0	1	0	3	0	0	4
ESE	0	1	2	3	0	0	6
SE	0	0	2	1	4	0	7
SSE	0	1	0	0	2	0	3
S	0	0	2	1	3	0	6
SSW	0	0	1	1	1	0	3
SU	0	2	2	1	0	5	10
USU	0	2	1	4	5	3	15
U	0	1	0	9	3	1	14
UNU	0	0	2	1	1	1	5
NW	0	1	3	3	1	2	10
NNW	1	2	4	5	0	0	12
VARIABLE	1	0	0	0	0	0	1

TOTAL 121
 PERIODS OF CALM(HOURS): 0
 HOURS OF MISSING DATA: 215

HOURS AT EACH WIND SPEED AND DIRECTION
 PERIOD OF RECORD- 82010101-82033124
 STABILITY CLASS: ALL
 ELEVATION: SPEED:SPD380 DIRECTION:DIR380 LAPSE:DT380
 WIND SPEED(MPH)

WIND DIRECTION	1-3	4-7	8-12	13-18	19-24	>24	TOTAL
N	8	10	37	40	12	1	106
NNE	1	13	23	29	9	10	85
NE	2	11	23	41	13	29	119
ENE	0	9	26	26	8	11	80
E	0	13	22	22	5	7	69
ESE	1	10	18	16	8	30	81
SE	0	7	9	11	13	9	49
SSE	0	7	5	8	11	2	33
S	1	5	10	19	29	15	79
SSW	1	4	16	23	30	21	95
SU	0	9	19	44	49	18	139
USU	0	8	20	34	36	16	112
U	0	8	10	53	56	47	174
UNU	0	5	41	92	101	78	317
NW	1	7	32	87	85	29	241
NNW	1	11	30	58	59	7	166
VARIABLE	4	0	1	0	0	0	5

TOTAL 1945
 PERIODS OF CALM(HOURS): 0
 HOURS OF MISSING DATA: 215

TABLE 10

Oyster Creek Meteorological Tower Joint Frequency Tables of Wind Speed and
Wind Direction 380ft versus Delta Temperature 380-33ft for the Period 4/1/82 - 6/30/82
(Second Quarter)

HOURS AT EACH WIND SPEED AND DIRECTION
PERIOD OF RECORD- 88040101-88063084
STABILITY CLASS: A
ELEVATION: SPEED:SPD380 DIRECTION:DIR380 LAPSE:DT380

WIND SPEED(MPH)

WIND DIRECTION	1-3	4-7	8-12	13-18	19-24	>24	TOTAL
N	0	0	1	2	0	0	3
NNE	0	0	2	2	0	0	4
NE	0	0	5	6	2	0	13
ENE	0	2	9	11	0	0	22
E	0	1	12	3	0	0	16
ESE	0	0	10	5	0	0	15
SE	0	2	6	5	0	0	13
SSE	0	0	0	6	0	0	6
S	0	0	3	7	4	0	14
SSW	0	0	3	3	2	4	12
SU	0	0	0	2	1	0	3
USU	0	0	1	3	1	1	6
U	0	0	6	8	4	1	19
UNW	0	0	3	27	10	24	64
NW	0	0	2	17	11	3	33
NNW	0	0	2	3	0	0	5
VARIABLE	0	0	0	0	0	0	0

TOTAL 248
PERIODS OF CALM(HOURS): 0
HOURS OF MISSING DATA: 187

HOURS AT EACH WIND SPEED AND DIRECTION
PERIOD OF RECORD- 88040101-88063084
STABILITY CLASS: B
ELEVATION: SPEED:SPD380 DIRECTION:DIR380 LAPSE:DT380

WIND SPEED(MPH)

WIND DIRECTION	1-3	4-7	8-12	13-18	19-24	>24	TOTAL
N	0	0	3	1	1	1	6
NNE	0	0	0	1	1	0	2
NE	0	2	6	0	1	0	9
ENE	0	0	4	0	0	0	4
E	0	2	3	0	0	0	5
ESE	1	0	7	1	0	0	9
SE	0	0	8	2	1	0	11
SSE	0	2	1	2	1	0	6
S	0	0	1	3	3	2	9
SSW	0	0	1	3	3	1	8
SU	0	0	0	1	0	1	2
USU	0	1	1	3	2	0	7
U	0	0	3	2	1	1	7
UNW	0	1	2	6	3	3	14
NW	0	1	2	3	1	1	8
NNW	0	0	3	1	0	0	4
VARIABLE	0	0	0	0	0	0	0

TOTAL 111
PERIODS OF CALM(HOURS): 0
HOURS OF MISSING DATA: 187

TABLE 10 (Continued)

HOURS AT EACH WIND SPEED AND DIRECTION
 PERIOD OF RECORD- 82040101-82083024
 STABILITY CLASS: C
 ELEVATION: SPEED:SPD380 DIRECTION:DIR380 LAPSE:DT380

 WIND SPEED(MPH)

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

TOTAL 147
 PERIODS OF CALM(HOURS): 0
 HOURS OF MISSING DATA: 187

HOURS AT EACH WIND SPEED AND DIRECTION
 PERIOD OF RECORD- 82040101-82083024
 STABILITY CLASS: D
 ELEVATION: SPEED:SPD380 DIRECTION:DIR380 LAPSE:DT380

 WIND SPEED(MPH)

WIND DIRECTION	1-3	4-7	8-12	13-18	19-24	>24	TOTAL
N	2	6	10	11	9	6	44
NNE	3	3	15	17	0	0	38
NE	2	4	15	28	20	3	72
ENE	2	9	16	20	12	11	70
E	3	11	35	17	4	4	74
ESE	1	11	16	3	0	3	34
SE	0	8	13	11	1	0	33
SSE	2	6	21	7	7	11	64
S	0	8	19	16	6	8	57
SSW	0	2	13	19	23	20	77
SW	1	3	2	4	2	1	19
WSW	3	4	3	7	3	3	23
W	0	2	9	6	3	11	31
WNW	0	3	5	16	12	44	80
NW	0	2	6	11	11	8	39
NNW	2	3	5	9	13	1	33
VARIABLE	2	0	0	0	0	0	2

TOTAL 778
 PERIODS OF CALM(HOURS): 0
 HOURS OF MISSING DATA: 187

TABLE 10 (Continued)

HOURS AT EACH WIND SPEED AND DIRECTION
 PERIOD OF RECORD- 82040101-82063024
 STABILITY CLASS: E
 ELEVATION: SPEED:SPD380 DIRECTION:DIR380 LAPSE:DT380

 WIND SPEED(MPH)

WIND DIRECTION	1-3	4-7	8-12	13-18	19-24	>24	TOTAL
N	0	2	0	3	3	0	8
NNE	1	1	3	0	1	0	6
NE	1	2	3	1	1	0	8
ENE	1	2	5	0	0	0	8
E	1	2	6	5	0	0	14
ESE	1	3	3	2	1	0	10
SE	0	1	3	1	0	1	6
SSE	0	1	2	2	2	2	15
S	0	2	13	17	9	8	47
SSW	0	2	8	17	16	13	56
SU	1	4	4	11	16	1	37
USU	1	1	4	8	8	7	29
U	1	3	5	10	16	3	38
UNW	0	3	6	9	10	10	38
NW	0	1	3	5	18	5	32
NNW	0	4	2	3	5	1	15
VARIABLE	4	0	0	0	0	0	4

TOTAL 367
 PERIODS OF CALM(HOURS): 0
 HOURS OF MISSING DATA: 167

HOURS AT EACH WIND SPEED AND DIRECTION
 PERIOD OF RECORD- 82040101-82063024
 STABILITY CLASS: F
 ELEVATION: SPEED:SPD380 DIRECTION:DIR380 LAPSE:DT380

 WIND SPEED(MPH)

WIND DIRECTION	1-3	4-7	8-12	13-18	19-24	>24	TOTAL
N	0	3	2	4	0	2	11
NNE	0	0	1	0	0	0	1
NE	0	2	1	2	0	0	5
ENE	0	2	2	1	0	0	5
E	0	0	0	0	0	0	0
ESE	0	0	1	0	0	0	1
SE	0	2	1	1	0	0	4
SSE	1	0	2	1	0	0	4
S	0	0	3	4	4	0	11
SSW	0	1	2	9	7	2	21
SU	0	0	1	11	14	2	28
USU	0	1	5	13	7	7	33
U	1	0	4	10	6	6	27
UNW	0	3	2	2	4	7	18
NW	0	0	2	2	13	2	19
NNW	0	1	1	2	8	3	15
VARIABLE	0	0	0	0	0	0	0

TOTAL 203
 PERIODS OF CALM(HOURS): 0
 HOURS OF MISSING DATA: 167

ENTER 0 TO CONTINUE TO PRINT NEXT TABLE OR 1 TO EXIT

TABLE 10 (Continued)

HOURS AT EACH WIND SPEED AND DIRECTION
 PERIOD OF RECORD- 82040101-82063024
 STABILITY CLASS: 0
 ELEVATION: SPEED:SPD380 DIRECTION:DIR380 LAPSE:DT380

 WIND SPEED(MPH)

WIND DIRECTION	1-3	4-7	8-12	13-18	19-24	>24	TOTAL
N	1	0	3	4	1	4	13
NNE	0	1	3	2	0	0	6
NE	0	1	1	3	0	0	5
ENE	1	2	1	2	1	0	7
E	0	0	0	0	0	0	0
ESE	1	1	0	0	0	0	2
SE	0	1	0	7	0	0	8
SSE	1	2	2	3	0	0	8
S	0	0	3	0	0	0	3
SSW	0	0	2	0	2	0	4
SU	1	4	1	1	7	0	14
USU	0	2	2	5	5	3	17
U	0	2	4	9	11	4	30
UNU	0	0	0	6	4	3	13
NW	0	1	3	3	5	1	13
NNW	2	4	1	1	4	2	14
VARIABLE	0	0	0	0	0	0	0

TOTAL 163
 PERIODS OF CALM(HOURS): 0
 HOURS OF MISSING DATA: 167

HOURS AT EACH WIND SPEED AND DIRECTION
 PERIOD OF RECORD- 82040101-82063024
 STABILITY CLASS: ALL
 ELEVATION: SPEED:SPD380 DIRECTION:DIR380 LAPSE:DT380

 WIND SPEED(MPH)

WIND DIRECTION	1-3	4-7	8-12	13-18	19-24	>24	TOTAL
N	4	12	20	29	14	14	93
NNE	4	5	27	24	3	0	63
NE	3	12	32	42	24	3	116
ENE	4	17	38	36	13	11	119
E	4	20	59	25	4	4	116
ESE	4	16	43	12	1	3	79
SE	1	16	35	28	2	1	83
SSE	4	11	42	24	11	15	107
S	0	12	44	50	30	18	154
SSW	0	5	30	55	57	43	190
SU	3	12	9	30	47	5	106
USU	4	12	17	42	26	21	122
U	3	9	38	51	42	28	171
UNU	0	11	27	66	45	95	244
NW	0	6	21	47	60	24	158
NNW	4	13	18	23	32	8	96
VARIABLE	13	0	0	0	0	0	13

TOTAL 2017
 PERIODS OF CALM(HOURS): 0
 HOURS OF MISSING DATA: 167

TABLE 11

Oyster Creek Meteorological Tower Joint Frequency Tables of Wind Speed and
Wind Direction 380ft versus Delta Temperature 380-33ft for the Period 1/1/82 - 6/30/82

HOURS AT EACH WIND SPEED AND DIRECTION
PERIOD OF RECORD: 82010101-82063084
STABILITY CLASS: A
ELEVATION: SPEED:SPD380 DIRECTION:DIR380 LAPSE:DT380

WIND SPEED(MPH)

WIND DIRECTION	1-3	4-7	8-12	13-18	19-24	>24	TOTAL
N	0	0	1	2	0	0	3
NNE	0	0	2	2	0	0	4
NE	0	0	5	11	2	0	18
ENE	0	3	13	15	0	0	31
E	0	1	14	3	0	0	18
ESE	0	0	11	6	0	0	17
SE	0	2	7	7	0	0	16
SSE	0	0	0	8	0	0	8
S	1	0	3	8	5	0	17
SSW	0	1	3	4	2	4	14
SU	0	2	0	3	1	0	6
USW	0	1	3	4	1	1	10
U	0	1	6	10	4	5	26
UNW	0	0	7	31	27	38	101
NW	0	0	2	26	18	4	50
NNW	0	0	2	4	2	1	9
VARIABLE	0	0	0	0	0	0	0

TOTAL 348
PERIODS OF CALM(HOURS): 0
HOURS OF MISSING DATA: 382

HOURS AT EACH WIND SPEED AND DIRECTION
PERIOD OF RECORD: 82010101-82063084
STABILITY CLASS: B
ELEVATION: SPEED:SPD380 DIRECTION:DIR380 LAPSE:DT380

WIND SPEED(MPH)

WIND DIRECTION	1-3	4-7	8-12	13-18	19-24	>24	TOTAL
N	0	0	3	1	1	1	6
NNE	0	0	1	1	1	0	3
NE	0	2	6	1	1	0	10
ENE	0	0	5	1	0	0	6
E	0	2	3	0	0	0	5
ESE	1	1	10	1	0	0	13
SE	0	0	8	2	1	0	11
SSE	0	2	2	2	1	0	7
S	0	0	1	5	4	2	12
SSW	0	0	1	4	3	1	9
SU	0	0	0	1	0	1	2
USW	0	1	2	4	2	0	9
U	0	0	3	3	1	8	13
UNW	0	1	4	8	6	11	30
NW	0	1	3	5	6	2	17
NNW	0	0	3	2	1	0	6
VARIABLE	0	0	1	0	0	0	1

TOTAL 159
PERIODS OF CALM(HOURS): 0
HOURS OF MISSING DATA: 382

TABLE 11 (Continued)

HOURS AT EACH WIND SPEED AND DIRECTION
 PERIOD OF RECORD- 82010101-82063024
 STABILITY CLASS: C
 ELEVATION: SPEED:SPD380 DIRECTION:DIR380 LAPSE:DT380

 WIND SPEED(MPH)

WIND DIRECTION	1-3	4-7	8-12	13-18	19-24	>24	TOTAL
N	1	1	2	5	1	1	11
NNE	0	1	3	2	1	0	7
NE	0	2	1	2	0	0	5
ENE	0	0	1	5	0	0	6
E	0	4	3	0	0	0	7
ESE	0	1	6	1	0	0	8
SE	1	2	5	1	0	0	9
SSE	0	0	9	3	1	2	15
S	0	2	2	4	5	3	16
SSW	0	0	2	5	5	3	15
SU	0	1	1	1	1	0	4
USU	0	3	1	4	1	0	9
U	1	2	7	8	3	4	25
UNU	0	1	8	7	6	14	36
NU	0	2	5	12	5	3	27
NNU	0	1	4	6	11	2	24
VARIABLE	1	0	0	0	0	0	1

TOTAL 224
 PERIODS OF CALM(HOURS): 0
 HOURS OF MISSING DATA: 382

HOURS AT EACH WIND SPEED AND DIRECTION
 PERIOD OF RECORD- 82010101-82063024
 STABILITY CLASS: D
 ELEVATION: SPEED:SPD380 DIRECTION:DIR380 LAPSE:DT380

 WIND SPEED(MPH)

WIND DIRECTION	1-3	4-7	8-12	13-18	19-24	>24	TOTAL
N	5	12	28	28	11	6	90
NNE	3	8	27	29	8	4	79
NE	3	8	21	55	27	27	141
ENE	2	11	21	27	16	15	92
E	3	14	44	26	5	5	97
ESE	1	17	21	7	2	3	51
SE	0	14	17	12	1	2	46
SSE	2	9	23	10	13	12	69
S	0	9	21	28	16	16	90
SSW	0	3	15	33	35	34	120
SU	1	4	9	16	21	3	54
USU	3	4	10	13	10	6	46
U	0	7	16	22	17	33	95
UNU	0	7	19	38	46	77	181
NU	0	5	20	37	37	18	117
NNU	2	9	18	29	24	2	84
VARIABLE	2	0	0	0	0	0	2

TOTAL 1452
 PERIODS OF CALM(HOURS): 0
 HOURS OF MISSING DATA: 382

TABLE 11 (Continued)

HOURS AT EACH WIND SPEED AND DIRECTION
 PERIOD OF RECORD- 820101-82063024
 STABILITY CLASS: E
 ELEVATION: SPEED:SPD380 DIRECTION:DIR380 LAPSE:DT380

 WIND SPEED(MPH)

WIND DIRECTION	1-3	4-7	8-12	13-18	19-24	>24	TOTAL
N	3	6	14	18	11	1	51
NNE	1	6	7	7	2	6	29
NE	2	3	9	7	7	5	33
ENE	1	6	12	3	4	7	33
E	1	9	11	12	4	6	43
ESE	2	4	10	10	4	29	59
SE	0	2	4	6	9	8	29
SSE	0	4	9	7	5	3	28
S	0	6	19	19	21	12	77
SSW	1	4	16	22	31	17	91
SU	1	5	9	32	38	9	94
USU	1	2	9	26	24	10	72
U	1	3	6	23	40	16	89
UNU	0	4	20	40	47	15	136
NU	1	3	13	36	51	16	120
NNU	0	7	10	24	27	4	72
VARIABLE	7	0	0	0	0	0	7

TOTAL 1055
 PERIODS OF CALM(HOURS): 0
 HOURS OF MISSING DATA: 382

HOURS AT EACH WIND SPEED AND DIRECTION
 PERIOD OF RECORD- 820101-82063024
 STABILITY CLASS: F
 ELEVATION: SPEED:SPD380 DIRECTION:DIR380 LAPSE:DT380

 WIND SPEED(MPH)

WIND DIRECTION	1-3	4-7	8-12	13-18	19-24	>24	TOTAL
N	0	3	6	12	1	2	24
NNE	1	1	3	9	0	0	14
NE	0	5	8	4	0	0	17
ENE	0	4	4	3	0	0	11
E	0	2	6	3	0	0	11
ESE	0	1	1	0	1	1	4
SE	0	2	1	3	0	0	6
SSE	1	0	2	1	0	0	4
S	0	0	3	4	5	0	12
SSW	0	1	6	9	8	5	29
SU	0	3	6	19	28	5	61
USU	0	3	9	16	14	14	56
U	1	1	6	20	19	6	53
UNU	0	3	2	12	15	16	54
NU	0	0	4	12	22	7	45
NNU	0	1	4	10	22	4	41
VARIABLE	0	0	0	0	0	0	0

TOTAL 448
 PERIODS OF CALM(HOURS): 0
 HOURS OF MISSING DATA: 382

TABLE 11 (Continued)

HOURS AT EACH WIND SPEED AND DIRECTION
 PERIOD OF RECORD- 82010101-82063024
 STABILITY CLASS: G
 ELEVATION: SPEED:SPD380 DIRECTION:DIR380 LAPSE:DT380

 WIND SPEED(MPH)

WIND DIRECTION	1-3	4-7	8-12	13-18	19-24	>24	TOTAL
N	1	0	3	5	1	4	14
NNE	0	2	7	3	0	0	12
NE	0	3	5	3	0	0	11
ENE	1	2	8	8	1	0	20
E	0	1	0	3	0	0	4
ESE	1	2	2	3	0	0	8
SE	0	1	2	8	4	0	15
SSE	1	3	2	3	2	0	11
S	0	0	5	1	3	0	9
SSW	0	0	3	1	3	0	7
SU	1	6	3	2	7	5	24
USU	0	4	3	9	10	6	32
U	0	3	4	18	14	5	44
UNU	0	0	8	7	5	4	24
NU	0	2	6	6	6	3	23
NNU	3	6	5	6	4	2	26
VARIABLE	1	0	0	0	0	0	1

TOTAL 284
 PERIODS OF CALM(HOURS): 0
 HOURS OF MISSING DATA: 382

HOURS AT EACH WIND SPEED AND DIRECTION
 PERIOD OF RECORD- 82010101-82063024
 STABILITY CLASS: ALL
 ELEVATION: SPEED:SPD380 DIRECTION:DIR380 LAPSE:DT380

 WIND SPEED(MPH)

WIND DIRECTION	1-3	4-7	8-12	13-18	19-24	>24	TOTAL
N	10	22	57	69	28	15	199
NNE	5	18	50	53	12	10	148
NE	5	23	55	83	37	32	235
ENE	4	26	64	62	21	22	199
E	4	33	81	47	9	11	185
ESE	5	26	81	28	7	33	160
SE	1	23	44	39	15	10	132
SSE	4	18	47	32	22	17	140
S	1	17	54	89	59	33	233
SSW	1	9	46	78	87	64	285
SU	3	21	28	74	96	23	245
USU	4	18	37	76	62	37	234
U	3	17	48	104	98	75	345
UNU	0	16	68	158	146	173	561
NU	1	13	53	134	145	53	399
NNU	5	24	46	81	91	15	262
VARIABLE	17	0	1	0	0	0	18

TOTAL 3962
 PERIODS OF CALM(HOURS): 0
 HOURS OF MISSING DATA: 382

TABLE 12

Oyster Creek Meteorological Tower Joint Frequency Tables of Wind Speed and
Wind Direction 33ft versus Delta Temperature 150-33ft for the Period 1/1/82 - 3/31/82
First Quarter

HOURS AT EACH WIND SPEED AND DIRECTION				
PERIOD OF RECORD-	82010101-82033124			
STABILITY CLASS-	A			
ELEVATION-	SPEED SPD33	DIRECTION DIR33	LAPSE-DT150	

WIND SPEED(MPH)				

WIND DIRECTION	1-3	4-7	8-12	13-18	19-24	>24	TOTAL
N	4	6	0	0	0	0	10
NNE	0	4	7	0	0	0	11
NE	4	4	10	0	0	0	18
ENE	3	5	4	0	0	0	12
E	0	5	1	0	0	0	6
ESE	1	4	5	0	0	0	10
SE	0	2	1	1	0	0	4
SSE	0	0	1	3	0	0	4
S	0	2	6	13	1	0	22
SSW	2	4	4	6	1	0	17
SW	1	7	8	4	0	0	20
WSW	2	6	17	10	0	0	35
W	3	18	18	17	4	0	60
WNW	4	19	40	13	0	0	76
NW	3	23	31	12	0	0	69
NNW	2	5	2	3	0	0	12
VARIABLE	9	0	0	0	0	0	9

TOTAL 386
PERIODS OF CALM(HOURS) 0
HOURS OF MISSING DATA 488

HOURS AT EACH WIND SPEED AND DIRECTION				
PERIOD OF RECORD-	82010101-82033124			
STABILITY CLASS.	B			
ELEVATION.	SPEED-SPD33	DIRECTION-DIR33	LAPSE-DT150	

WIND SPEED(MPH)				

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

TOTAL 42
PERIODS OF CALM(HOURS) 0
HOURS OF MISSING DATA 488

TABLE 12 (Continued)

HOURS AT EACH WIND SPEED AND DIRECTION
 PERIOD OF RECORD- 82010101-82033124
 STABILITY CLASS- C
 ELEVATION- SPEED-SPD33 DIRECTION-DIR33 LAPSE-DT150

 WIND SPEED(MPH)

WIND DIRECTION	1-3	4-7	8-12	13-18	19-24	>24	TOTAL
N	0	2	0	0	0	0	2
NNE	0	2	0	1	0	0	3
NE	0	1	5	3	0	0	9
ENE	0	0	0	0	0	0	0
E	0	3	0	0	0	0	3
ESE	0	1	2	0	0	0	3
SE	0	0	0	1	0	0	1
SSE	0	0	0	1	0	0	1
S	0	1	2	1	0	0	4
SSW	0	0	0	0	0	0	0
SU	0	2	0	0	0	0	2
USU	0	0	1	0	0	0	1
U	1	1	3	0	0	0	5
UNU	2	2	1	1	0	0	6
NU	1	0	2	0	0	0	3
NNU	1	2	2	0	0	0	5
VARIABLE	1	0	0	0	0	0	1

TOTAL 48
 PERIODS OF CALM(HOURS)- 0
 HOURS OF MISSING DATA- 488

HOURS AT EACH WIND SPEED AND DIRECTION
 PERIOD OF RECORD- 82010101-82033124
 STABILITY CLASS- D
 ELEVATION- SPEED-SPD33 DIRECTION-DIR33 LAPSE-DT150

 WIND SPEED(MPH)

WIND DIRECTION	1-3	4-7	8-12	13-18	19-24	>24	TOTAL
N	4	15	6	0	0	0	25
NNE	7	22	16	2	0	0	47
NE	6	13	19	19	0	0	57
ENE	1	7	7	4	0	0	19
E	2	15	6	2	0	0	25
ESE	4	11	5	2	0	0	22
SE	2	6	1	3	0	0	12
SSE	1	3	8	4	1	0	17
S	1	4	15	12	12	0	44
SSW	1	4	9	0	2	0	16
SU	2	11	3	0	0	0	16
USU	5	12	6	0	0	0	23
U	9	22	17	4	2	0	54
UNU	9	16	16	6	0	0	47
NU	11	17	20	1	0	0	49
NNU	16	16	6	0	0	0	38
VARIABLE	16	0	0	0	0	0	16

TOTAL 511
 PERIODS OF CALM(HOURS)- 0
 HOURS OF MISSING DATA- 488

TABLE 12 (Continued)

HOURS AT EACH WIND SPEED AND DIRECTION
 PERIOD OF RECORD- 82010101-82033124
 STABILITY CLASS- E
 ELEVATION- SPEED-SPD33 DIRECTION-DIR33 LAPSE-DT150
 WIND SPEED(MPH)

WIND DIRECTION	1-3	4-7	8-12	13-18	19-24	>24	TOTAL
N	5	0	0	0	0	0	5
NNE	2	4	1	0	0	0	7
NE	2	1	1	0	0	0	4
ENE	3	3	0	0	0	0	6
E	3	7	0	0	0	0	10
ESE	1	2	1	0	0	0	4
SE	2	5	1	0	0	0	8
SSE	3	4	6	0	0	0	13
S	1	13	5	3	4	0	26
SSW	4	14	17	3	0	0	38
SU	6	29	9	0	0	0	44
USW	11	16	12	3	0	0	42
U	11	22	12	0	0	0	45
UNW	9	29	26	2	0	0	66
NW	10	17	3	0	0	0	30
NNW	15	2	0	0	0	0	17
VARIABLE	14	0	0	0	0	0	14

TOTAL 365
 PERIODS OF CALM(HOURS)- 0
 HOURS OF MISSING DATA- 488

HOURS AT EACH WIND SPEED AND DIRECTION
 PERIOD OF RECORD- 82010101-82033124
 STABILITY CLASS- F
 ELEVATION- SPEED-SPD33 DIRECTION-DIR33 LAPSE-DT150
 WIND SPEED(MPH)

WIND DIRECTION	1-3	4-7	8-12	13-18	19-24	>24	TOTAL
N	6	1	0	0	0	0	7
NNE	1	0	0	0	0	0	1
NE	3	0	0	0	0	0	3
ENE	1	0	0	0	0	0	1
E	0	0	0	0	0	0	0
ESE	0	0	0	0	0	0	0
SE	0	1	0	0	0	0	1
SSE	1	2	0	0	0	0	3
S	4	4	0	0	0	0	8
SSW	5	3	0	0	0	0	8
SU	4	12	2	0	0	0	18
USW	6	8	1	1	0	0	16
U	10	14	1	1	0	0	26
UNW	9	4	1	0	0	0	14
NW	11	5	0	0	0	0	16
NNW	4	1	0	0	0	0	5
VARIABLE	7	0	0	0	0	0	7

TOTAL 127
 PERIODS OF CALM(HOURS)- 0
 HOURS OF MISSING DATA- 488

TABLE 12 (Continued)

HOURS AT EACH WIND SPEED AND DIRECTION

PERIOD OF RECORD- 82010101-82033124

STABILITY CLASS- G

ELEVATION- SPEED-SPD33 DIRECTION-DIR33 LAPSE-DT150

WIND SPEED(MPH)

WIND DIRECTION	1-3	4-7	8-12	13-18	19-24	>24	TOTAL
N	2	0	0	0	0	0	2
NNE	1	0	0	0	0	0	1
NE	3	1	0	0	0	0	4
ENE	3	0	0	0	0	0	3
E	3	0	0	0	0	0	3
ESE	3	2	0	0	0	0	5
SE	2	1	0	0	0	0	3
SSE	2	1	0	0	0	0	3
S	5	2	0	0	0	0	7
SSU	7	1	0	0	0	0	8
SU	14	19	0	0	0	0	33
USU	15	19	0	0	0	0	34
U	8	14	1	0	0	0	23
UNU	19	9	2	0	0	0	30
NU	12	15	1	0	0	0	28
NNW	2	4	0	0	0	0	6
VARIABLE	11	0	0	0	0	0	11

TOTAL 193
PERIODS OF CALM(HOURS): 0
HOURS OF MISSING DATA: 488

HOURS AT EACH WIND SPEED AND DIRECTION

PERIOD OF RECORD- 82010101-82033124

STABILITY CLASS- ALL

ELEVATION- SPEED-SPD33 DIRECTION-DIR33 LAPSE-DT150

WIND SPEED(MPH)

WIND DIRECTION	1-3	4-7	8-12	13-18	19-24	>24	TOTAL
N	22	24	7	0	0	0	53
NNE	11	34	24	3	0	0	72
NE	18	22	35	24	0	0	99
ENE	11	16	12	4	0	0	43
E	8	30	7	2	0	0	47
ESE	9	22	13	2	0	0	46
SE	6	16	3	5	0	0	30
SSE	7	10	16	9	1	0	43
S	11	27	29	29	18	0	114
SSU	19	28	30	10	3	0	90
SU	28	81	22	4	0	0	135
USU	39	63	37	14	0	0	153
U	45	91	53	22	6	0	217
UNU	53	79	89	23	0	0	244
NU	48	78	58	13	0	0	197
NNW	40	33	13	3	0	0	89
VARIABLE	58	0	0	0	0	0	58

TOTAL 1672
PERIODS OF CALM(HOURS): 0
HOURS OF MISSING DATA: 488

TABLE 13

Oyster Creek Meteorological Tower Joint Frequency Tables of Wind Speed and
Wind Direction 33ft versus delta Temperature 150-33ft for the Period 4/1/82 - 6/30/82
Second Quarter

HOURS AT EACH WIND SPEED AND DIRECTION
PERIOD OF RECORD- 82040101-82063024
STABILITY CLASS- A
ELEVATION- SPEED-SPD33 DIRECTION-DIR33 LAPSE-DT150
WIND SPEED(MPH)

WIND DIRECTION	1-3	4-7	8-12	13-18	19-24	>24	TOTAL
N	2	7	10	1	0	0	20
NNE	1	20	12	0	0	0	33
NE	5	25	21	1	0	0	52
ENE	2	18	24	0	0	0	44
E	3	27	26	1	0	0	57
ESE	2	27	19	1	0	0	49
SE	3	17	32	6	0	0	58
SSE	2	10	18	11	3	0	44
S	3	7	21	23	11	0	65
SSW	4	11	6	5	0	0	26
SW	4	10	11	4	0	0	29
WSW	4	19	28	2	5	0	58
W	2	9	29	27	9	0	76
WNW	2	11	47	20	7	0	87
NW	3	11	34	4	0	0	52
NNW	1	9	10	2	0	0	22
VARIABLE	4	0	0	0	0	0	4

TOTAL 772
PERIODS OF CALM(HOURS)- 0
HOURS OF MISSING DATA- 176

HOURS AT EACH WIND SPEED AND DIRECTION
PERIOD OF RECORD- 82040101-82063024
STABILITY CLASS- B
ELEVATION- SPEED-SPD33 DIRECTION-DIR33 LAPSE-DT150
WIND SPEED(MPH)

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

TOTAL 68
PERIODS OF CALM(HOURS)- 0
HOURS OF MISSING DATA- 176

TABLE 13 (Continued)

HOURS AT EACH WIND SPEED AND DIRECTION
 PERIOD OF RECORD- 82040101-82063024
 STABILITY CLASS- C
 ELEVATION- SPEED-SPD33 DIRECTION-DIR33 LAPSE-DT150
 WIND SPEED(MPH)

WIND DIRECTION	1-3	4-7	8-12	13-18	19-24	>24	TOTAL
N	0	0	0	0	0	0	0
NNE	1	1	0	0	0	0	2
NE	0	1	5	0	0	0	6
ENE	0	3	2	3	0	0	8
E	0	7	2	0	0	0	9
ESE	1	1	0	1	0	0	3
SE	0	3	0	0	0	0	3
SSE	0	2	2	0	0	0	4
S	0	1	3	1	0	0	5
SSW	0	1	1	3	0	0	5
SU	1	1	0	0	0	0	2
USU	0	0	4	0	0	0	4
U	0	1	1	0	0	0	2
UNW	0	0	0	0	0	0	0
NW	0	2	2	0	0	0	4
NNW	1	3	2	0	0	0	6
VARIABLE	1	0	0	0	0	0	1

TOTAL 63
 PERIODS OF CALM(HOURS)- 0
 HOURS OF MISSING DATA- 176

HOURS AT EACH WIND SPEED AND DIRECTION
 PERIOD OF RECORD- 82040101-82063024
 STABILITY CLASS- D
 ELEVATION- SPEED-SPD33 DIRECTION-DIR33 LAPSE-DT150
 WIND SPEED(MPH)

WIND DIRECTION	1-3	4-7	8-12	13-18	19-24	>24	TOTAL
N	5	7	4	2	0	0	18
NNE	5	13	2	0	0	0	20
NE	6	13	19	1	1	0	40
ENE	6	15	7	5	0	0	33
E	2	30	6	0	0	0	38
ESE	3	15	5	0	0	0	23
SE	3	13	2	2	0	0	20
SSE	3	13	6	7	1	2	32
S	4	22	19	12	5	2	64
SSW	3	11	14	8	0	0	36
SU	2	6	3	0	0	0	11
USU	2	9	3	0	0	0	14
U	3	7	14	21	1	0	46
UNW	2	10	9	9	3	0	33
NW	4	13	14	0	0	0	31
NNW	9	13	5	2	0	0	29
VARIABLE	17	0	0	0	0	0	17

TOTAL 488
 PERIODS OF CALM(HOURS)- 0
 HOURS OF MISSING DATA- 176

TABLE 13 (Continued)

HOURS AT EACH WIND SPEED AND DIRECTION
 PERIOD OF RECORD- 82040101-82063024
 STABILITY CLASS- E
 ELEVATION- SPEED-SPD33 DIRECTION-DIR33 LAPSE-DT150

 WIND SPEED(MPH)

WIND DIRECTION	1-3	4-7	8-12	13-18	19-24	>24	TOTAL
N	1	0	1	0	0	0	2
NNE	4	2	1	0	0	0	7
NE	2	4	1	1	0	0	8
ENE	0	6	2	0	0	0	8
E	1	5	2	0	0	0	8
ESE	3	3	2	0	0	0	8
SE	3	8	3	0	0	0	14
SSE	4	6	1	0	0	1	12
S	8	14	2	3	0	0	27
SSW	5	11	7	1	0	0	24
SU	6	23	7	0	0	0	36
USU	5	24	8	1	0	0	38
U	5	7	4	2	0	0	18
UNU	2	10	9	1	0	0	22
NU	5	9	6	0	0	0	20
NNU	0	0	1	0	0	0	1
VARIABLE	11	0	0	0	0	0	11

TOTAL 253
 PERIODS OF CALM(HOURS)- 0
 HOURS OF MISSING DATA- 176

HOURS AT EACH WIND SPEED AND DIRECTION
 PERIOD OF RECORD- 82040101-82063024
 STABILITY CLASS- F
 ELEVATION- SPEED-SPD33 DIRECTION-DIR33 LAPSE-DT150

 WIND SPEED(MPH)

WIND DIRECTION	1-3	4-7	8-12	13-18	19-24	>24	TOTAL
N	1	2	0	0	0	0	3
NNE	2	2	0	0	0	0	4
NE	0	0	0	0	0	0	0
ENE	3	0	0	0	0	0	3
E	3	3	0	0	0	0	6
ESE	0	1	3	0	0	0	4
SE	1	1	1	0	0	0	3
SSE	6	1	0	0	0	0	7
S	4	7	2	0	0	0	13
SSW	3	9	1	0	0	0	13
SU	3	19	1	0	0	0	23
USU	4	20	2	0	0	0	26
U	1	3	4	0	0	0	8
UNU	3	4	0	0	0	0	7
NU	1	5	0	0	0	0	6
NNU	2	2	0	0	0	0	4
VARIABLE	3	0	0	0	0	0	3

TOTAL 130
 PERIODS OF CALM(HOURS)- 0
 HOURS OF MISSING DATA- 176

TABLE 13 (Continued)

HOURS AT EACH WIND SPEED AND DIRECTION
 PERIOD OF RECORD: 82040101-82063024
 STABILITY CLASS: G
 ELEVATION: SPEED SPD33 DIRECTION DIR33 LAPSE DT150
 WIND SPEED(MPH)

WIND DIRECTION	1-3	4-7	8-12	13-18	19-24	>24	TOTAL
N	3	0	0	0	0	0	3
NNE	3	1	0	0	0	0	4
NE	0	0	0	0	0	0	0
ENE	0	0	0	0	0	0	0
E	1	0	0	0	0	0	1
ESE	1	0	0	0	0	0	1
SE	0	0	0	0	0	0	0
SSE	2	1	0	0	0	0	3
S	3	5	0	2	0	0	10
SSW	7	3	0	0	0	0	10
SW	10	30	0	0	0	0	40
WSW	16	40	2	0	0	0	58
W	18	12	6	0	0	0	36
WNW	17	16	4	0	0	0	37
NW	9	10	3	0	0	0	22
NNW	3	5	0	1	0	0	9
VARIABLE	6	0	0	0	0	0	6

TOTAL 234
 PERIODS OF CALM(HOURS): 0
 HOURS OF MISSING DATA: 176

HOURS AT EACH WIND SPEED AND DIRECTION
 PERIOD OF RECORD: 82040101-82063024
 STABILITY CLASS: ALL
 ELEVATION: SPEED SPD33 DIRECTION DIR33 LAPSE DT150
 WIND SPEED(MPH)

WIND DIRECTION	1-3	4-7	8-12	13-18	19-24	>24	TOTAL
N	12	20	16	3	0	0	51
NNE	16	40	17	0	0	0	73
NE	14	44	51	3	1	0	113
ENE	11	44	37	8	0	0	100
E	10	77	38	2	0	0	127
ESE	10	49	29	2	0	0	90
SE	10	46	41	8	1	0	106
SSE	17	34	29	19	4	3	106
S	22	56	51	42	16	2	189
SSW	22	47	31	17	0	0	117
SW	27	89	24	4	0	0	144
WSW	31	115	49	3	5	0	203
W	29	40	59	51	11	0	190
WNW	26	51	71	31	10	0	189
NW	22	50	59	4	0	0	135
NNW	17	33	20	5	0	0	75
VARIABLE	43	0	0	0	0	0	43

TOTAL 2008
 PERIODS OF CALM(HOURS): 0
 HOURS OF MISSING DATA: 176

TABLE 14

Oyster Creek meteorological Tower Joint Frequency Tables of Wind Speed and Wind Direction 33ft versus Delta Temperature 150-33ft for the Period 1/1/82 - 6/30/82

HOURS AT EACH WIND SPEED AND DIRECTION
 PERIOD OF RECORD- 82010101-82063024
 STABILITY CLASS: A
 ELEVATION- SPEED-SPD33 DIRECTION-DIR33 LAPSE-DT150
 WIND SPEED(MPH)

WIND DIRECTION	1-3	4-7	8-12	13-18	19-24	>24	TOTAL
N	6	13	10	1	0	0	30
NNE	1	24	19	0	0	0	44
NE	9	29	31	1	0	0	70
ENE	5	23	28	0	0	0	56
E	3	32	27	1	0	0	63
ESE	3	31	24	1	0	0	59
SE	3	19	33	7	0	0	62
SSE	2	10	19	14	3	0	48
S	3	9	27	36	12	0	87
SSW	6	15	10	11	1	0	43
SU	5	17	19	8	0	0	49
USW	6	25	45	12	5	0	93
U	5	27	47	44	13	0	136
UNW	6	30	87	33	7	0	163
NW	6	34	65	16	0	0	121
NNW	3	14	12	5	0	0	34
VARIABLE	13	0	0	0	0	0	13

TOTAL 1158
 PERIODS OF CALM(HOURS): 0
 HOURS OF MISSING DATA: 664

HOURS AT EACH WIND SPEED AND DIRECTION
 PERIOD OF RECORD- 82010101-82063024
 STABILITY CLASS: B
 ELEVATION- SPEED-SPD33 DIRECTION-DIR33 LAPSE-DT150
 WIND SPEED(MPH)

WIND DIRECTION	1-3	4-7	8-12	13-18	19-24	>24	TOTAL
N	1	4	2	0	0	0	7
NNE	0	3	2	0	0	0	5
NE	1	3	5	2	0	0	11
ENE	0	3	3	0	0	0	6
E	0	5	2	1	0	0	8
ESE	0	4	0	0	0	0	4
SE	0	5	3	0	1	0	9
SSE	0	1	3	2	0	0	6
S	0	1	5	1	1	0	8
SSW	0	3	2	1	0	0	6
SU	2	1	2	0	0	0	5
USW	0	5	2	0	0	0	7
U	3	1	2	1	1	0	8
UNW	1	0	5	2	0	0	8
NW	0	1	1	0	0	0	2
NNW	1	4	5	0	0	0	10
VARIABLE	1	0	0	0	0	0	1

TOTAL 110
 PERIODS OF CALM(HOURS): 0
 HOURS OF MISSING DATA: 664

TABLE 14 (Continued)

HOURS AT EACH WIND SPEED AND DIRECTION
 PERIOD OF RECORD- 82010101-82063024
 STABILITY CLASS- C
 ELEVATION- SPEED-SPD33 DIRECTION-DIR33 LAPSE-DT150
 WIND SPEED(MPH)

WIND DIRECTION	1-3	4-7	8-12	13-18	19-24	>24	TOTAL
N	0	2	0	0	0	0	2
NNE	1	3	0	1	0	0	5
NE	0	2	10	3	0	0	15
ENE	0	3	2	3	0	0	8
E	0	10	2	0	0	0	12
ESE	1	2	2	1	0	0	6
SE	0	3	0	1	0	0	4
SSE	0	2	2	1	0	0	5
S	0	2	5	2	0	0	9
SSW	0	1	1	3	0	0	5
SW	1	3	0	0	0	0	4
WSW	0	0	5	0	0	0	5
W	1	2	4	0	0	0	7
WNW	2	2	1	1	0	0	6
NW	1	2	4	0	0	0	7
NNW	2	5	4	0	0	0	11
VARIABLE	2	0	0	0	0	0	2

TOTAL 111
 PERIODS OF CALM(HOURS)- 0
 HOURS OF MISSING DATA- 664

HOURS AT EACH WIND SPEED AND DIRECTION
 PERIOD OF RECORD- 82010101-82063024
 STABILITY CLASS- D
 ELEVATION- SPEED-SPD33 DIRECTION-DIR33 LAPSE-DT150
 WIND SPEED(MPH)

WIND DIRECTION	1-3	4-7	8-12	13-18	19-24	>24	TOTAL
N	9	22	10	2	0	0	43
NNE	12	35	18	2	0	0	67
NE	12	26	38	20	1	0	97
ENE	7	22	14	9	0	0	52
E	4	45	12	2	0	0	63
ESE	7	26	10	2	0	0	45
SE	5	19	3	5	0	0	32
SSE	4	16	14	11	2	2	49
S	5	26	34	24	17	2	108
SSW	4	15	23	8	2	0	52
SW	4	17	6	0	0	0	27
WSW	7	21	9	0	0	0	37
W	12	29	31	25	3	0	100
WNW	11	26	25	15	3	0	80
NW	15	30	34	1	0	0	80
NNW	25	29	11	2	0	0	67
VARIABLE	33	0	0	0	0	0	33

TOTAL 999
 PERIODS OF CALM(HOURS)- 0
 HOURS OF MISSING DATA- 664

TABLE 14 (Continued)

HOURS AT EACH WIND SPEED AND DIRECTION
 PERIOD OF RECORD- 82010101-82083024
 STABILITY CLASS- E
 ELEVATION- SPEED SPD33 DIRECTION DIR33 LAPSE DT150

 WIND SPEED(MPH)

WIND DIRECTION	1-3	4-7	8-12	13-18	19-24	>24	TOTAL
N	6	0	1	0	0	0	7
NNE	6	6	2	0	0	0	14
NE	4	5	2	1	0	0	12
ENE	3	9	2	0	0	0	14
E	4	12	2	0	0	0	18
ESE	4	5	3	0	0	0	12
SE	5	13	4	0	0	0	22
SSE	7	10	7	0	0	1	25
S	9	27	7	6	4	0	53
SSW	9	25	24	4	0	0	62
SW	12	52	16	0	0	0	80
WSW	16	40	20	4	0	0	80
W	16	29	16	2	0	0	63
WNW	11	39	35	3	0	0	88
NW	15	26	9	0	0	0	50
NNW	15	2	1	0	0	0	18
VARIABLE	25	0	0	0	0	0	25

TOTAL 818
 PERIODS OF CALM(HOURS)- 0
 HOURS OF MISSING DATA- 664

HOURS AT EACH WIND SPEED AND DIRECTION
 PERIOD OF RECORD- 82010101-82063024
 STABILITY CLASS- F
 ELEVATION- SPEED SPD33 DIRECTION DIR33 LAPSE DT150

 WIND SPEED(MPH)

WIND DIRECTION	1-3	4-7	8-12	13-18	19-24	>24	TOTAL
N	7	3	0	0	0	0	10
NNE	3	2	0	0	0	0	5
NE	3	0	0	0	0	0	3
ENE	4	0	0	0	0	0	4
E	3	3	0	0	0	0	6
ESE	0	1	3	0	0	0	4
SE	1	2	1	0	0	0	4
SSE	7	3	0	0	0	0	10
S	8	11	2	0	0	0	21
SSW	8	12	1	0	0	0	21
SW	7	31	3	0	0	0	41
WSW	10	28	3	1	0	0	42
W	11	17	5	1	0	0	34
WNW	12	8	1	0	0	0	21
NW	12	10	0	0	0	0	22
NNW	6	3	0	0	0	0	9
VARIABLE	10	0	0	0	0	0	10

TOTAL 257
 PERIODS OF CALM(HOURS)- 0
 HOURS OF MISSING DATA- 664

TABLE 14 (Continued)

HOURS AT EACH WIND SPEED AND DIRECTION

PERIOD OF RECORD- 82010101-82063024

STABILITY CLASS- G

ELEVATION- SPEED SPD33 DIRECTION DIR33 LAPSE DT150

WIND SPEED(MPH)

WIND DIRECTION	1-3	4-7	8-12	13-18	19-24	>24	TOTAL
N	5	0	0	0	0	0	5
NNE	4	1	0	0	0	0	5
NE	3	1	0	0	0	0	4
ENE	3	0	0	0	0	0	3
E	4	0	0	0	0	0	4
ESE	4	2	0	0	0	0	6
SE	2	1	0	0	0	0	3
SSE	4	2	0	0	0	0	6
S	8	7	0	2	0	0	17
SSW	14	4	0	0	0	0	18
SW	24	49	0	0	0	0	73
WSW	31	59	2	0	0	0	92
W	26	26	7	0	0	0	59
WNW	36	25	6	0	0	0	67
NW	21	25	4	0	0	0	50
NNW	5	9	0	1	0	0	15
VARIABLE	17	0	0	0	0	0	17

TOTAL 427
PERIODS OF CALM(HOURS) 0
HOURS OF MISSING DATA 664

HOURS AT EACH WIND SPEED AND DIRECTION

PERIOD OF RECORD- 82010101-82063024

STABILITY CLASS- ALL

ELEVATION- SPEED SPD33 DIRECTION DIR33 LAPSE DT150

WIND SPEED(MPH)

WIND DIRECTION	1-3	4-7	8-12	13-18	19-24	>24	TOTAL
N	34	44	23	3	0	0	104
NNE	27	74	41	3	0	0	145
NE	32	66	86	27	1	0	212
ENE	22	60	49	12	0	0	143
E	18	107	45	4	0	0	174
ESE	19	71	42	4	0	0	136
SE	16	62	44	13	1	0	136
SSE	24	44	45	28	5	3	149
S	33	83	80	71	34	2	303
SSW	41	75	61	27	3	0	207
SW	55	170	46	8	0	0	279
WSW	70	178	86	17	5	0	356
W	74	131	112	73	17	0	407
WNW	79	130	160	54	10	0	433
NW	70	128	117	17	0	0	332
NNW	57	66	33	8	0	0	164
VARIABLE	101	0	0	0	0	0	101

TOTAL 3680
PERIODS OF CALM(HOURS) 0
HOURS OF MISSING DATA 664

FIGURE 2

GPU NUCLEAR CORPORATION
OYSTER CREEK NUCLEAR GENERATING STATION
DECEMBER 1981 - 33' LEVEL

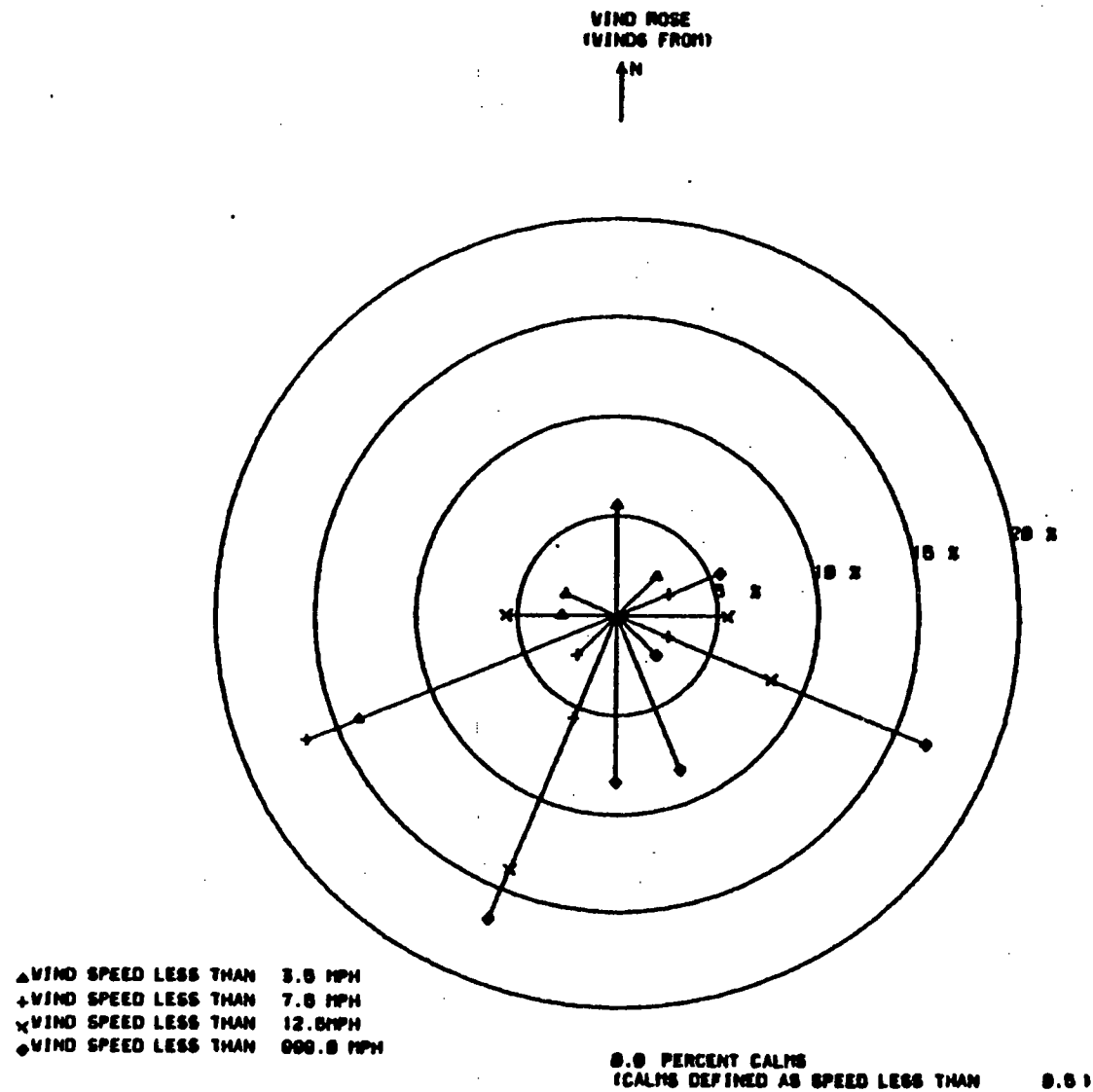


FIGURE 3

GPU NUCLEAR CORPORATION
OYSTER CREEK NUCLEAR GENERATING STATION
DECEMBER 1981 - 150' LEVEL

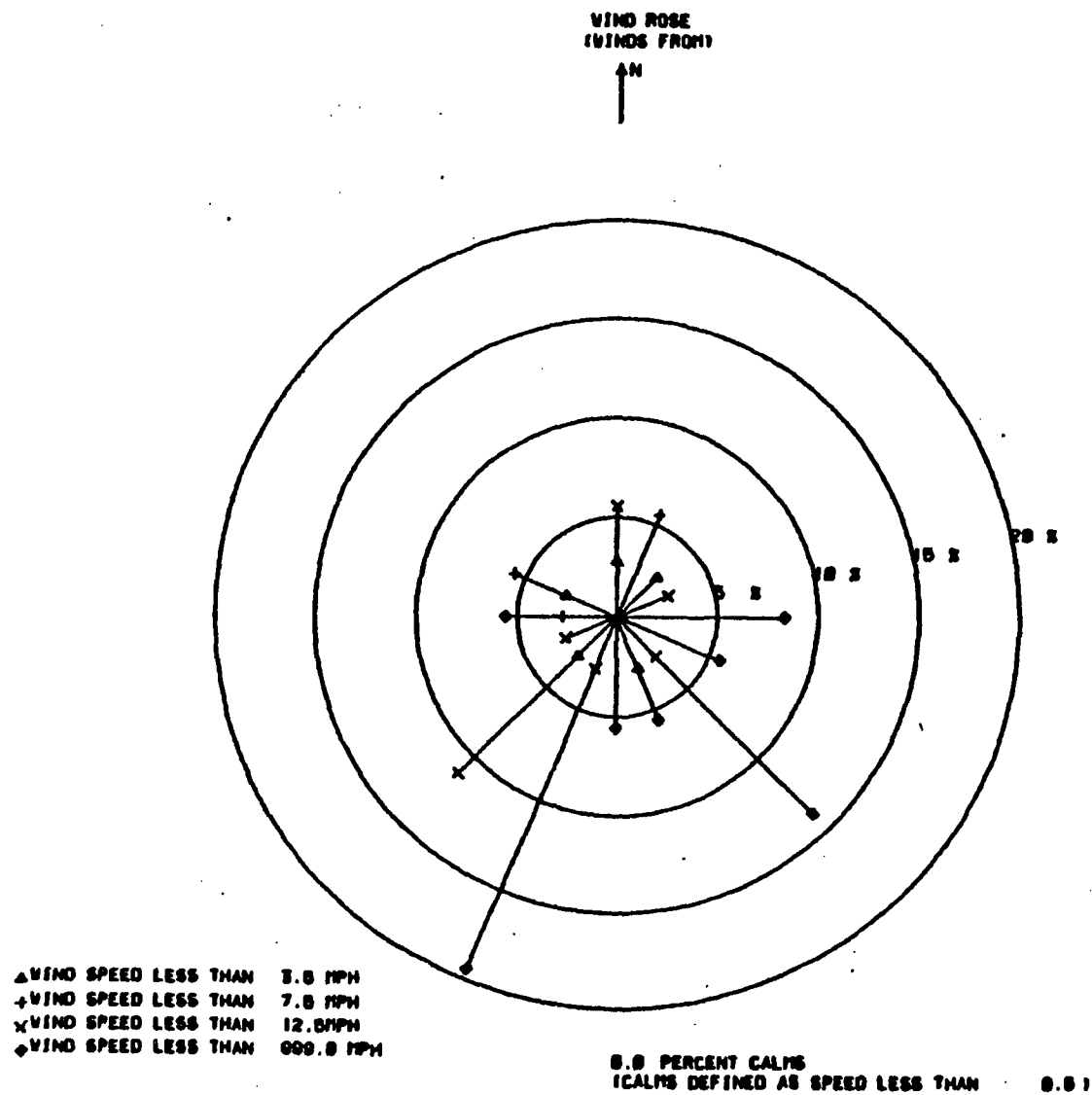
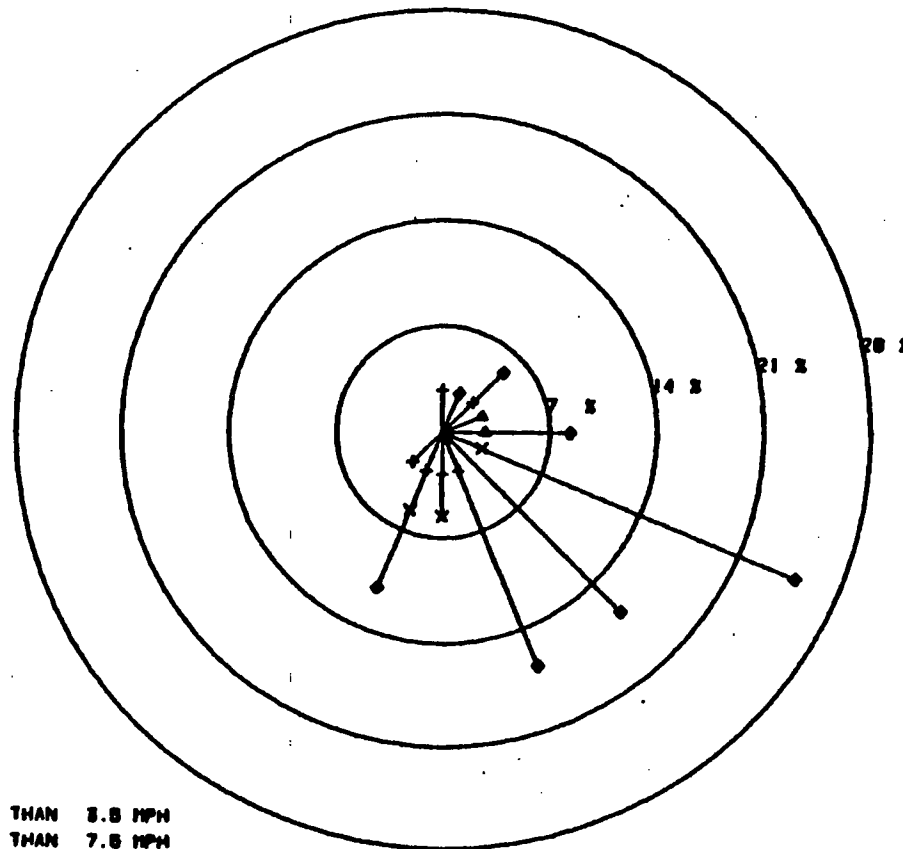


FIGURE 4

GPU NUCLEAR CORPORATION
OYSTER CREEK NUCLEAR GENERATING STATION
DECEMBER 1981 - 380' LEVEL

WIND ROSE
(WINDS FROM)



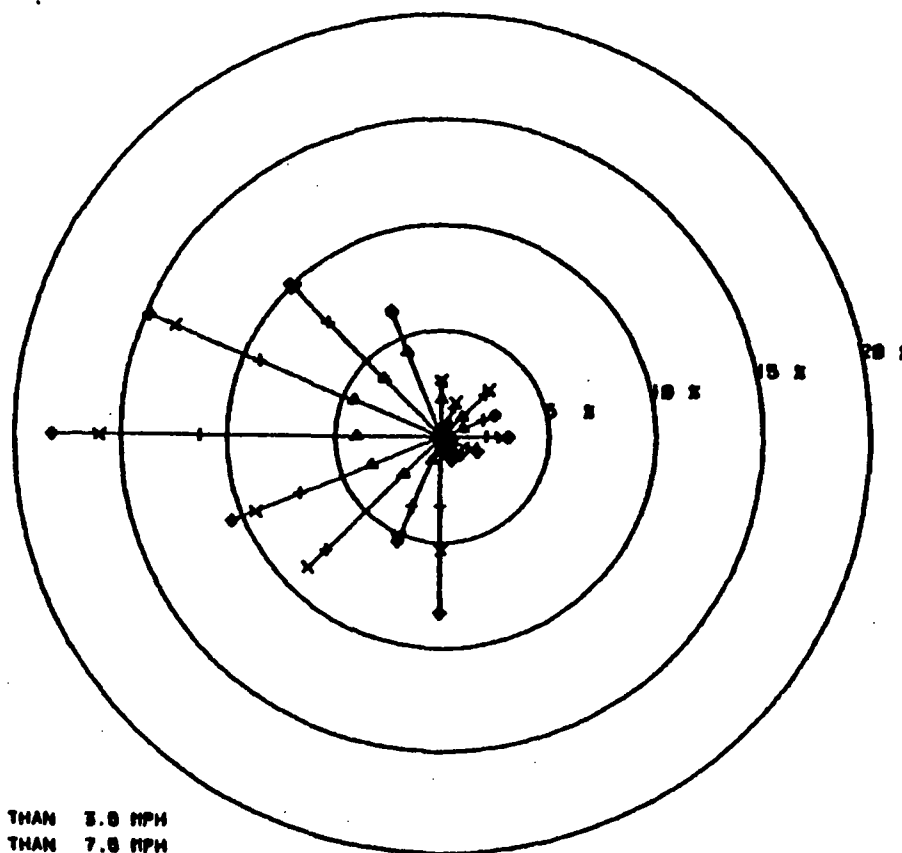
▲ WIND SPEED LESS THAN 3.0 MPH
+ WIND SPEED LESS THAN 7.0 MPH
x WIND SPEED LESS THAN 12.0 MPH
◆ WIND SPEED LESS THAN 999.0 MPH

0.0 PERCENT CALMS
(CALMS DEFINED AS SPEED LESS THAN 0.0)

FIGURE 5

GPU NUCLEAR CORPORATION
OYSTER CREEK NUCLEAR GENERATING STATION
JANUARY 1982 - 33' LEVEL

WIND ROSE
(WINDS FROM)



▲ WIND SPEED LESS THAN 3.0 MPH
+ WIND SPEED LESS THAN 7.0 MPH
x WIND SPEED LESS THAN 12.0 MPH
● WIND SPEED LESS THAN 000.0 MPH

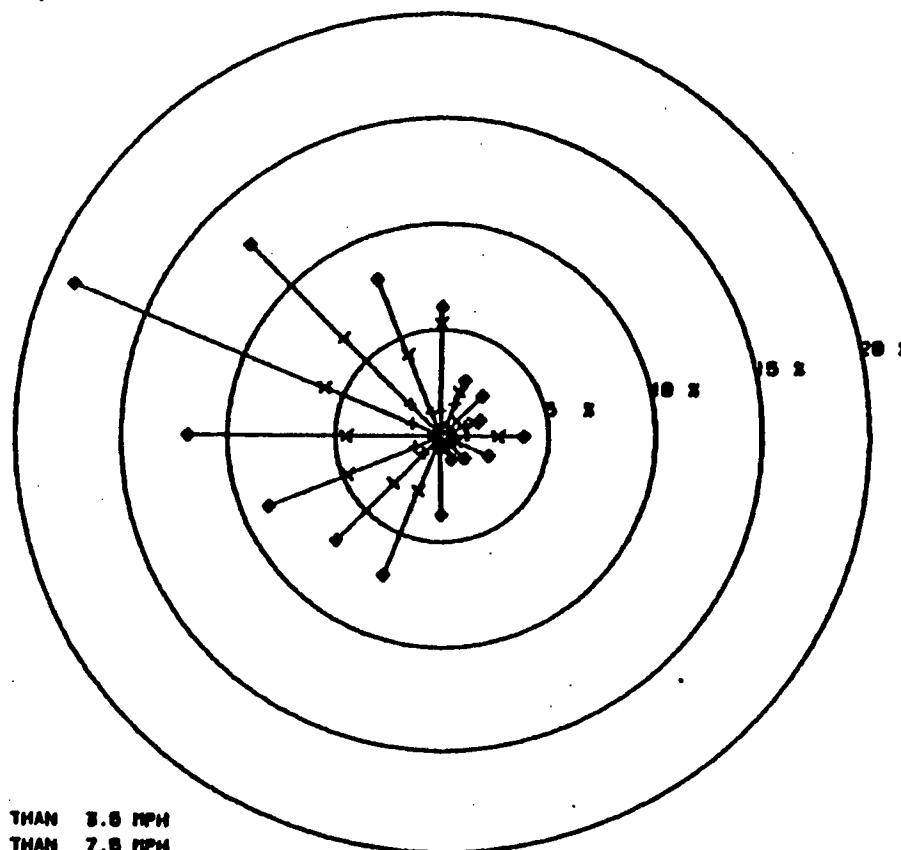
0.0 PERCENT CALMS
(CALMS DEFINED AS SPEED LESS THAN 0.0)

FIGURE 6

GPU NUCLEAR CORPORATION
OYSTER CREEK NUCLEAR GENERATING STATION
JANUARY 1982 - 150' LEVEL

WIND ROSE
(WINDS FROM)

↑ N



▲ WIND SPEED LESS THAN 3.6 MPH
+ WIND SPEED LESS THAN 7.6 MPH
× WIND SPEED LESS THAN 12.8 MPH
● WIND SPEED LESS THAN 200.0 MPH

0.0 PERCENT CALMS
(CALMS DEFINED AS SPEED LESS THAN 0.0)

FIGURE 7
GPU NUCLEAR CORPORATION
OYSTER CREEK NUCLEAR GENERATING STATION
JANUARY 1982 - 380' LEVEL

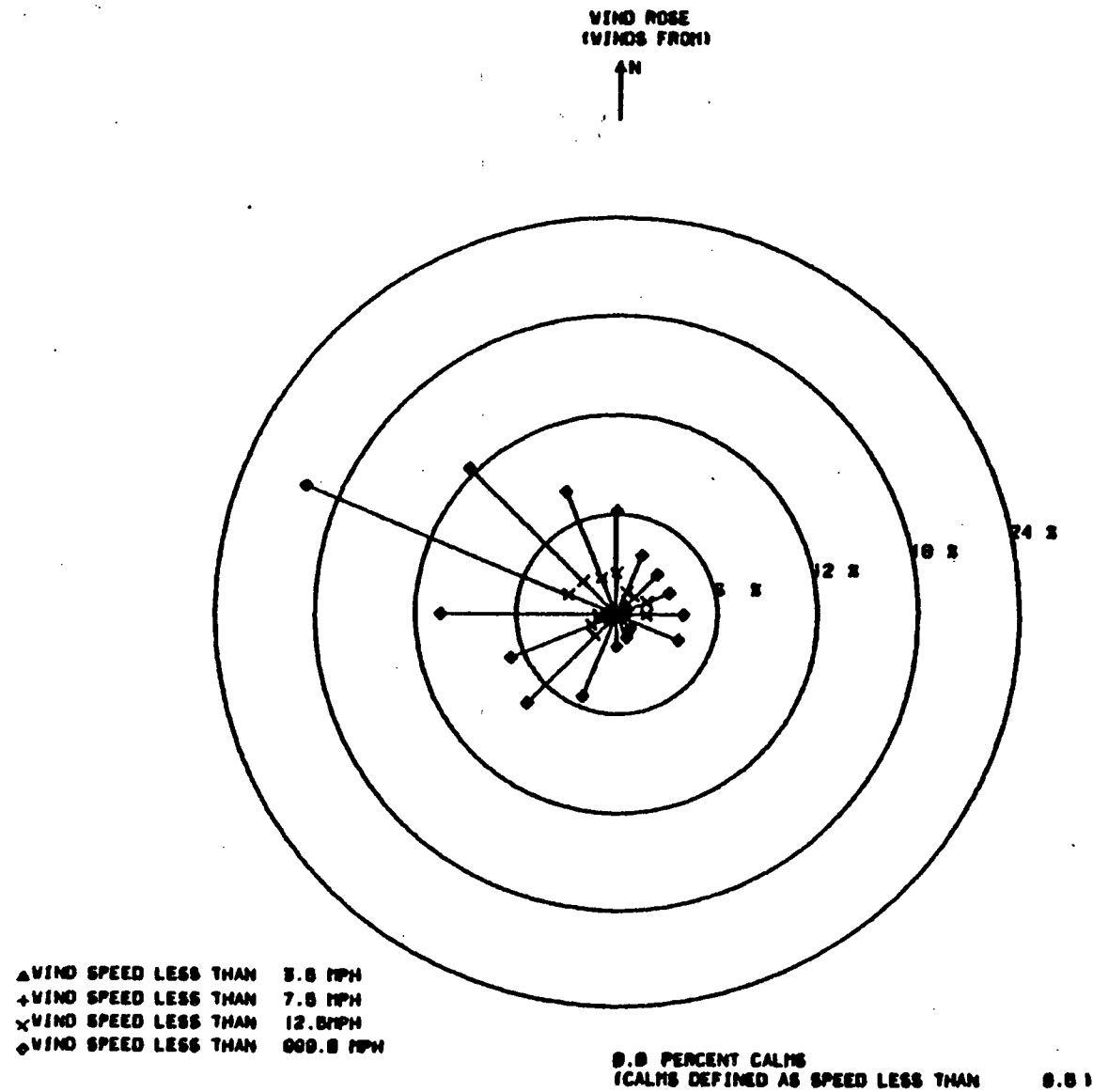
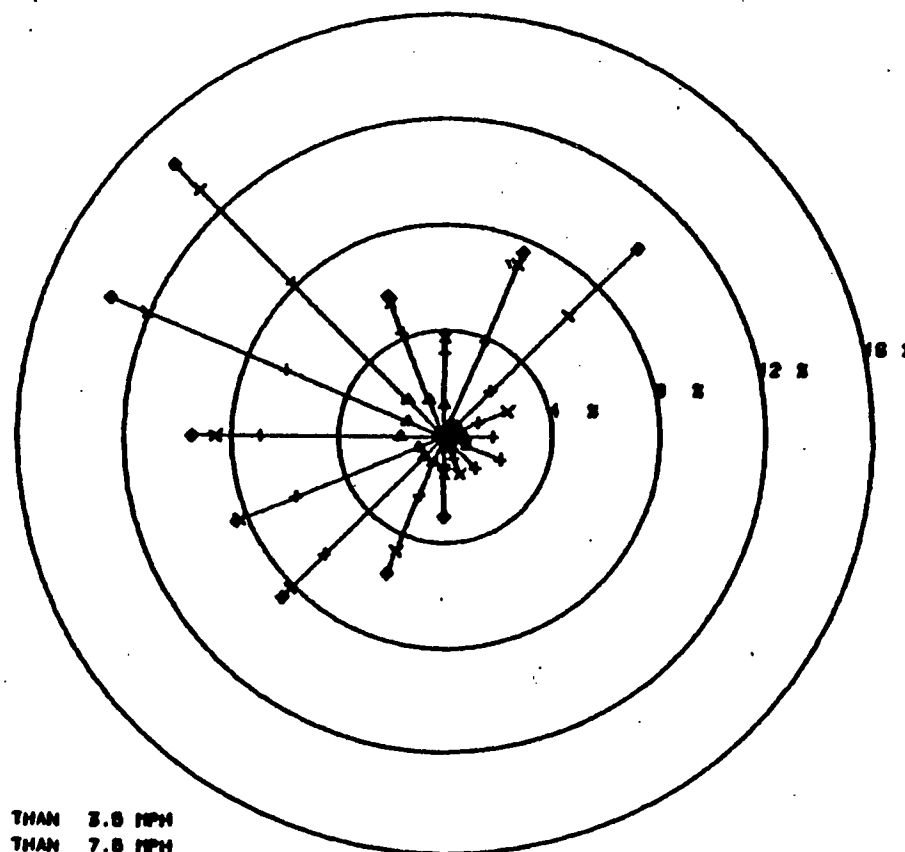


FIGURE 8

GPU NUCLEAR CORPORATION
OYSTER CREEK NUCLEAR GENERATING STATION
FEBRUARY 1982 - 33' LEVEL

WIND ROSE
(WINDS FROM)



△ WIND SPEED LESS THAN 3.0 MPH
+ WIND SPEED LESS THAN 7.0 MPH
× WIND SPEED LESS THAN 12.0 MPH
◆ WIND SPEED LESS THAN 000.0 MPH

0.0 PERCENT CALMS
(CALMS DEFINED AS SPEED LESS THAN 0.0)

FIGURE 9
GPU NUCLEAR CORPORATION
OYSTER CREEK NUCLEAR GENERATING STATION
FEBRUARY 1982 - 150' LEVEL

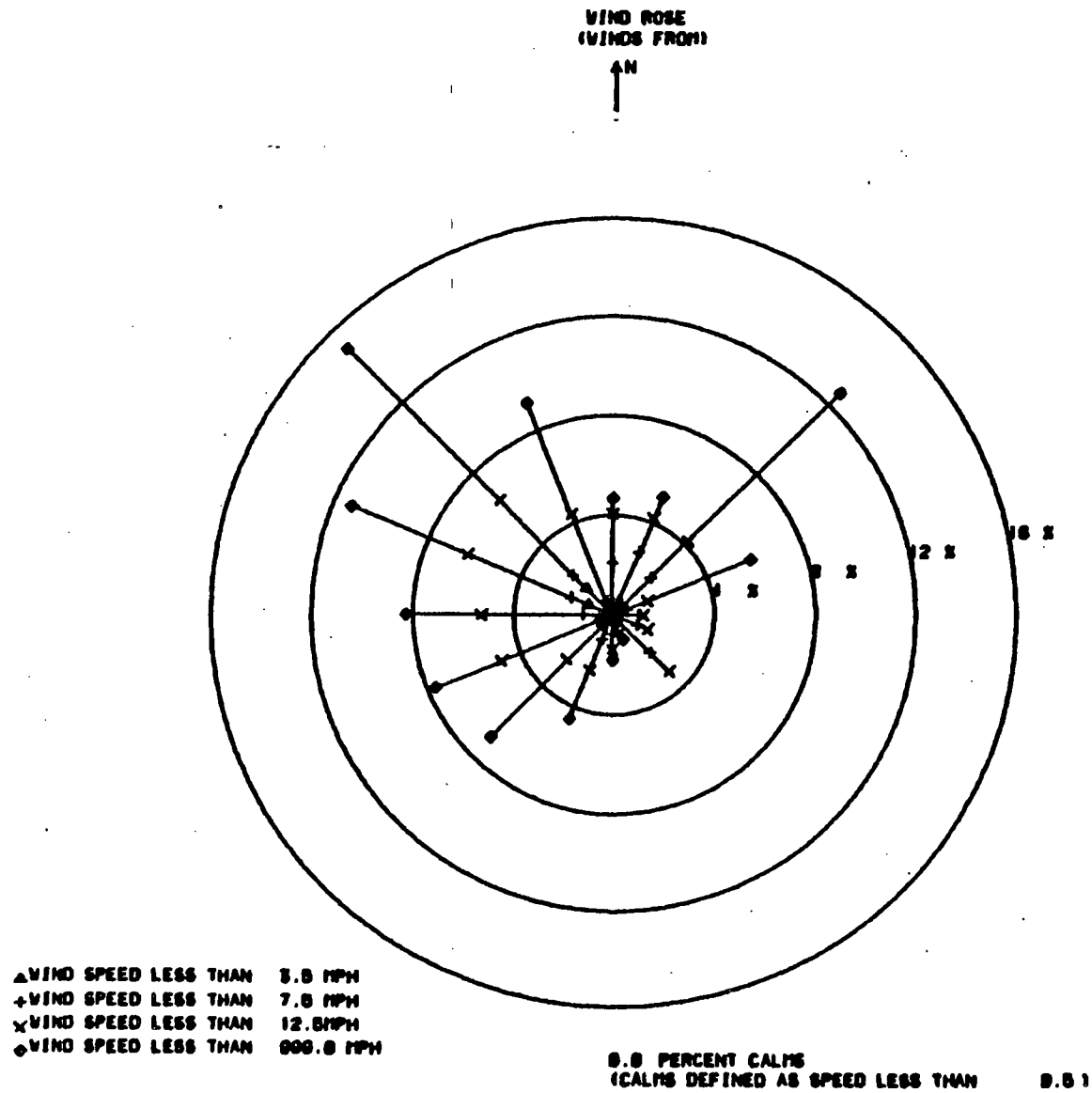


FIGURE 10
GPU NUCLEAR CORPORATION
OYSTER CREEK NUCLEAR GENERATING STATION
FEBRUARY 1982 - 380' LEVEL

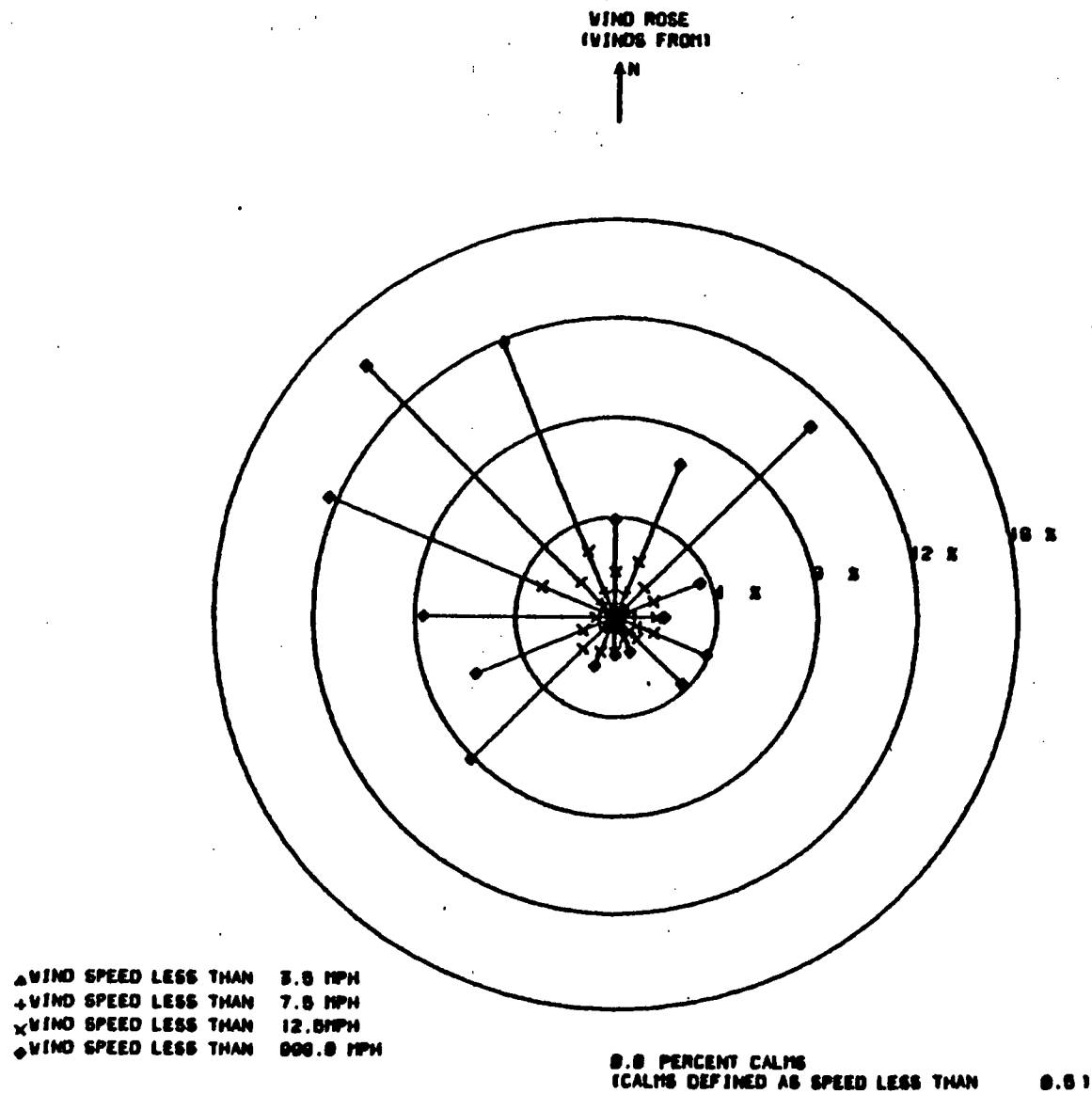
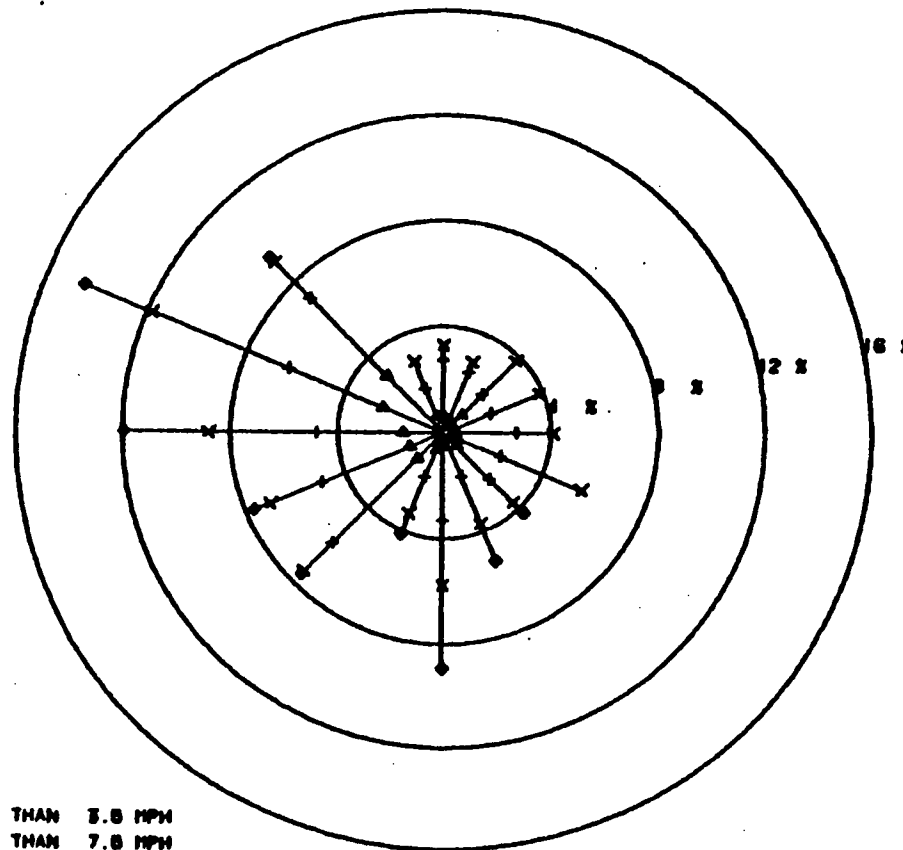


FIGURE 11

GPU NUCLEAR CORPORATION
OYSTER CREEK NUCLEAR GENERATING STATION
MARCH 1982 - 33' LEVEL

WIND ROSE
(WINDS FROM)



△ WIND SPEED LESS THAN 3.0 MPH
+ WIND SPEED LESS THAN 7.0 MPH
× WIND SPEED LESS THAN 12.0 MPH
◆ WIND SPEED LESS THAN 999.9 MPH

0.0 PERCENT CALMS
(CALMS DEFINED AS SPEED LESS THAN 0.0)

FIGURE 12
GPU NUCLEAR CORPORATION
OYSTER CREEK NUCLEAR GENERATING STATION
MARCH 1982 - 150' LEVEL

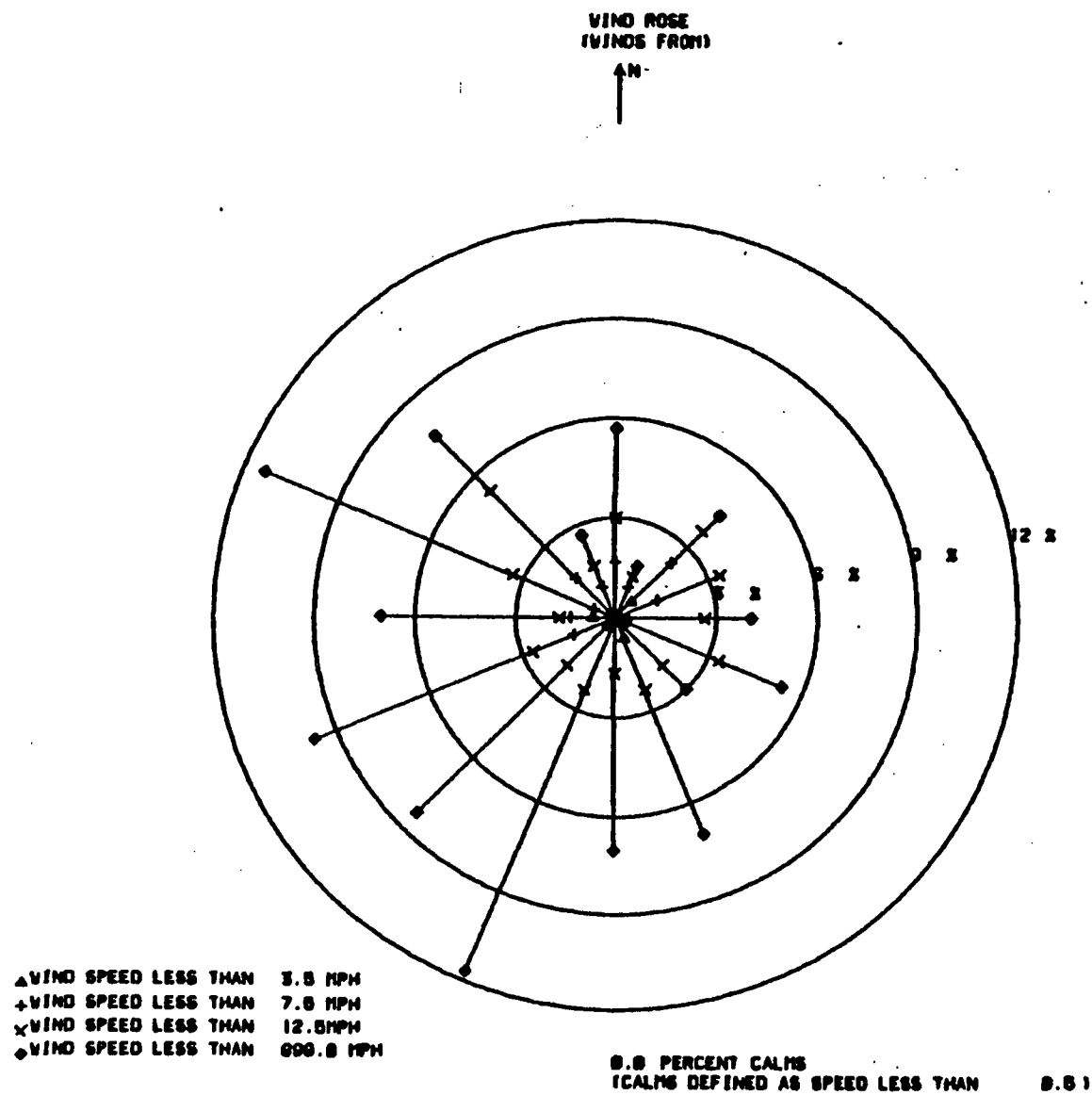


FIGURE 13
GPU NUCLEAR CORPORATION
OYSTER CREEK NUCLEAR GENERATING STATION
MARCH 1982 - 380' LEVEL

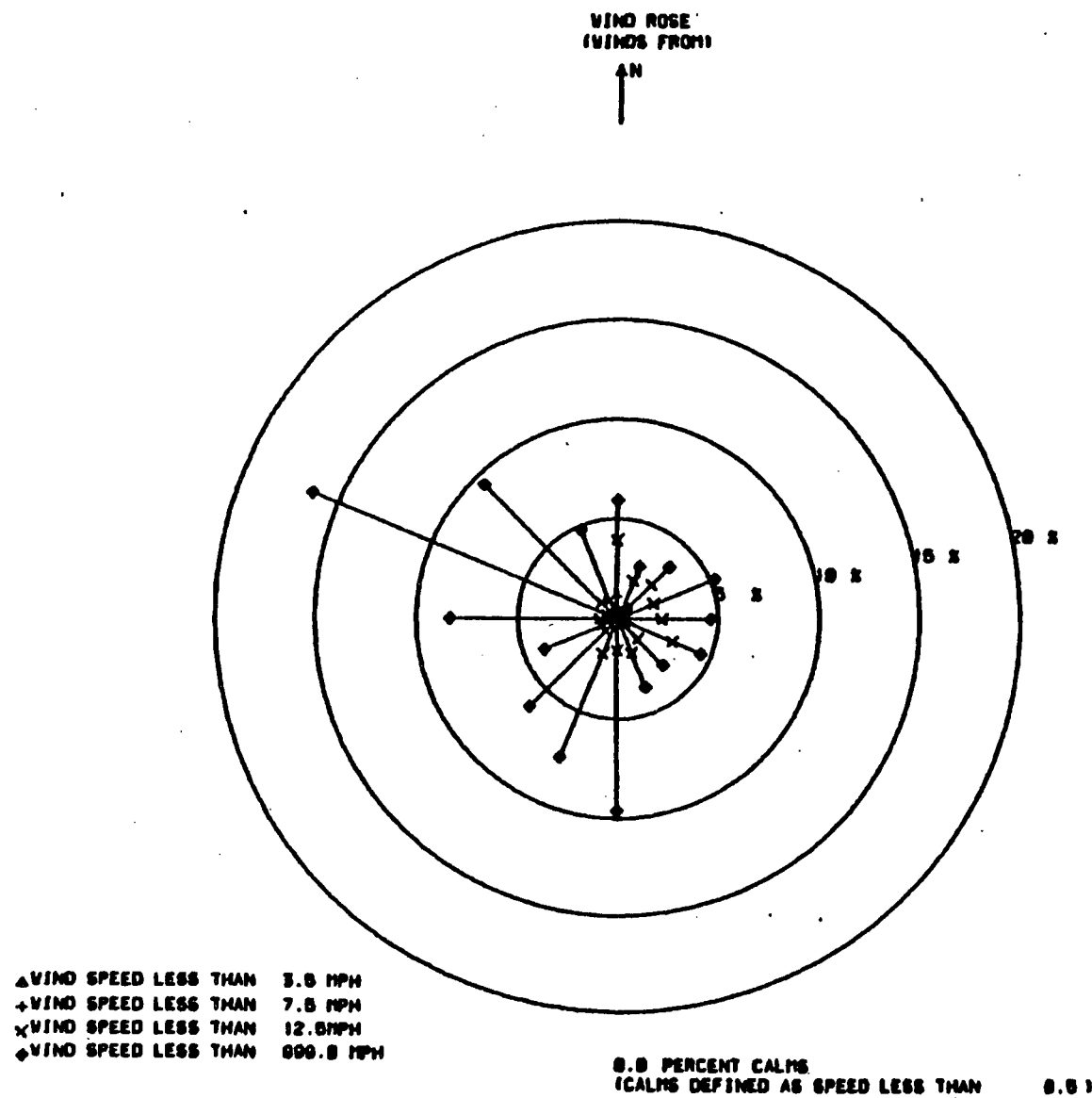


FIGURE 14
GPU NUCLEAR CORPORATION
OYSTER CREEK NUCLEAR GENERATING STATION
APRIL 1982 - 33' LEVEL

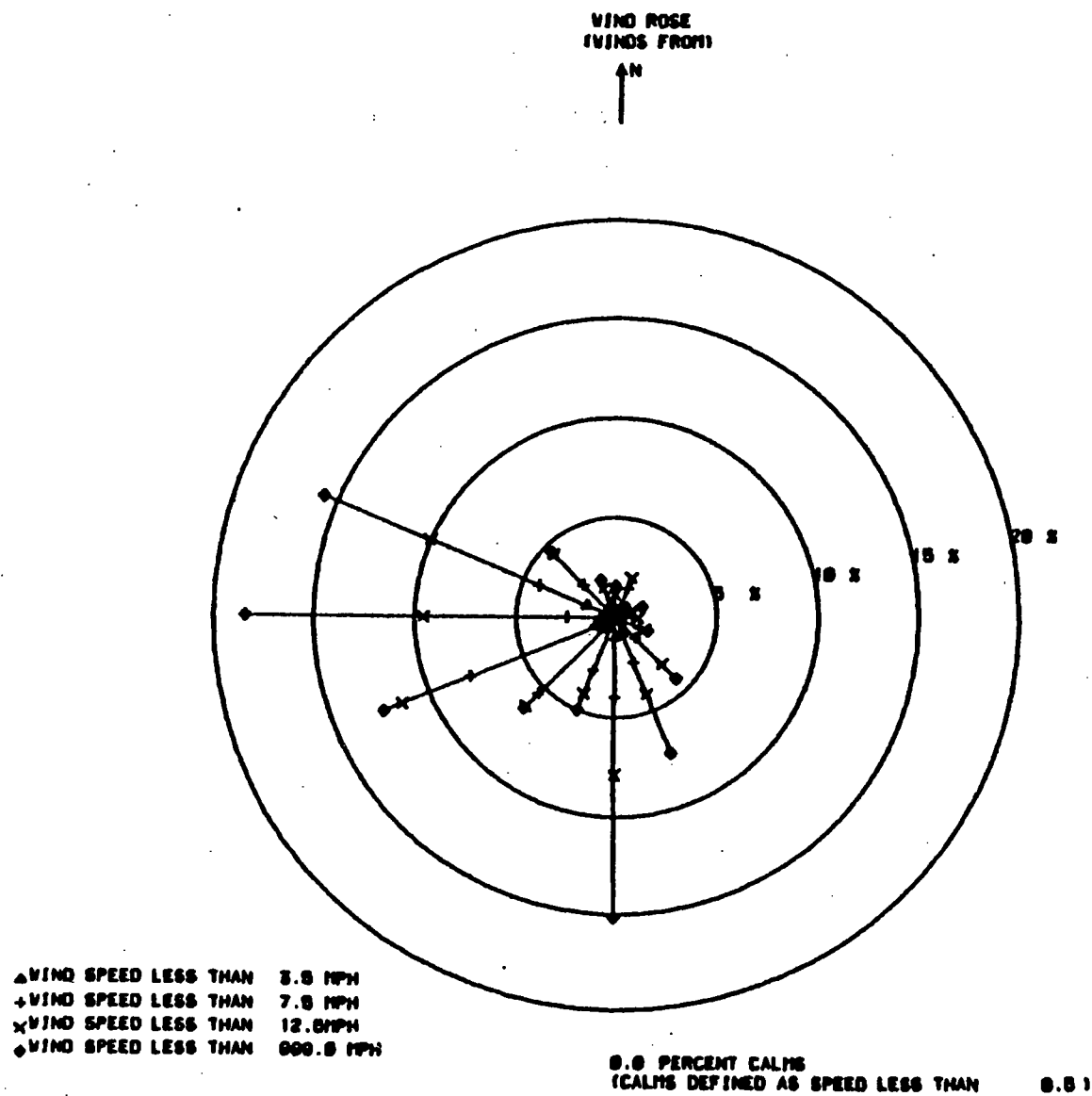


FIGURE 15
GPU NUCLEAR CORPORATION
OYSTER CREEK NUCLEAR GENERATING STATION
APRIL 1982 - 150' LEVEL

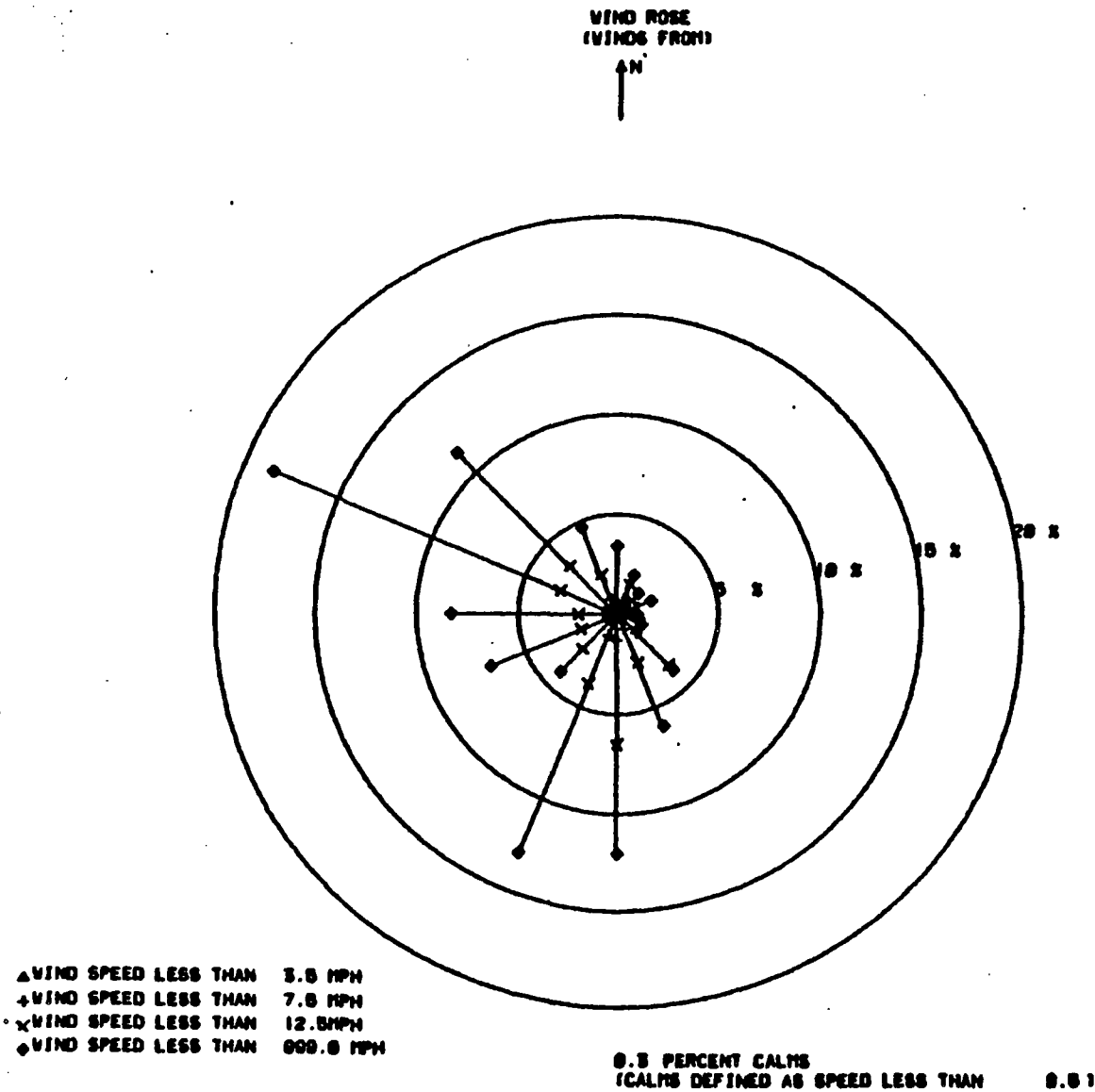


FIGURE 16
GPU NUCLEAR CORPORATION
OYSTER CREEK NUCLEAR GENERATING STATION
APRIL 1982 - 380' LEVEL

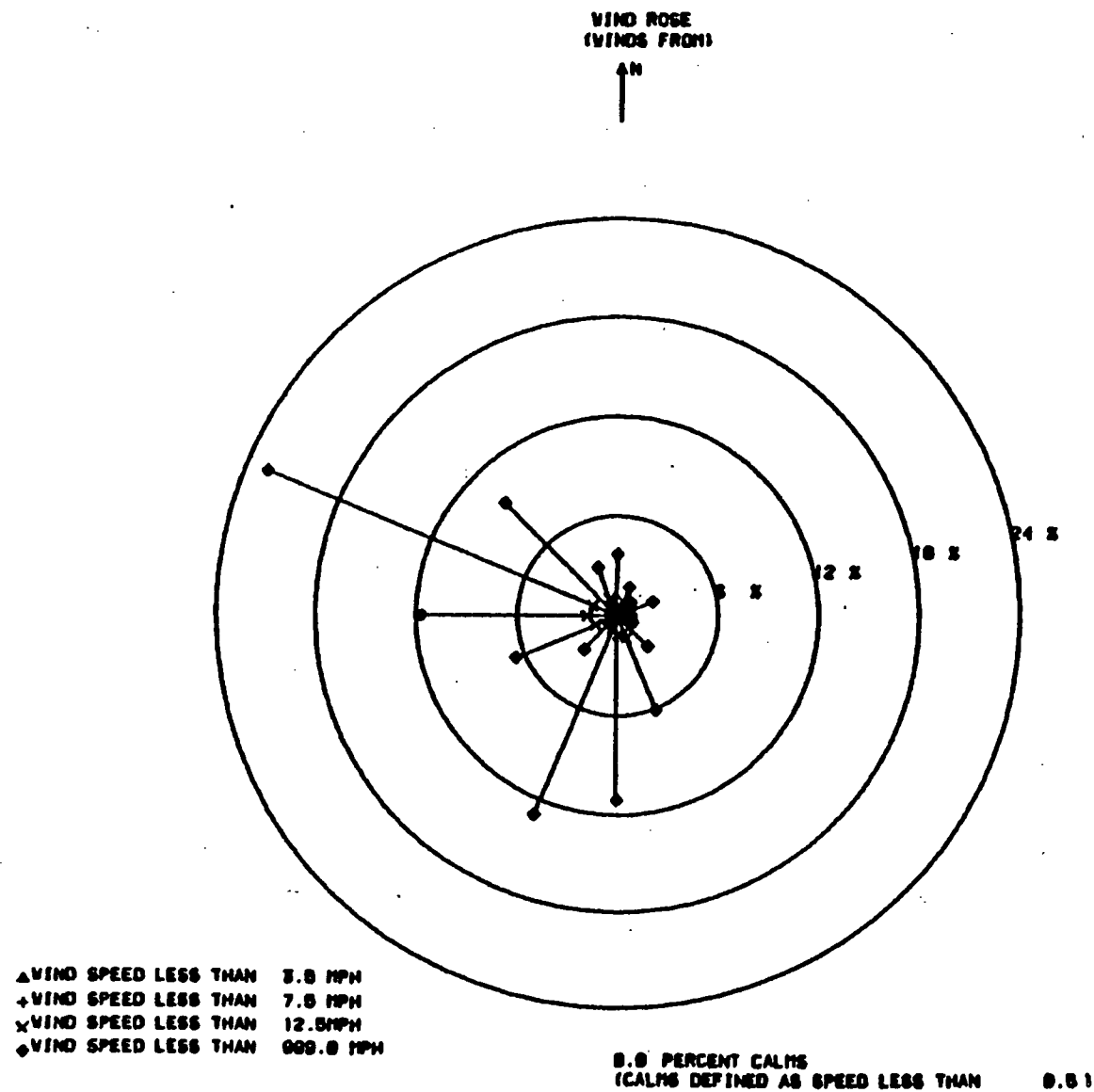


FIGURE 17
GPU NUCLEAR CORPORATION
OYSTER CREEK NUCLEAR GENERATING STATION
MAY 1982 - 33' LEVEL

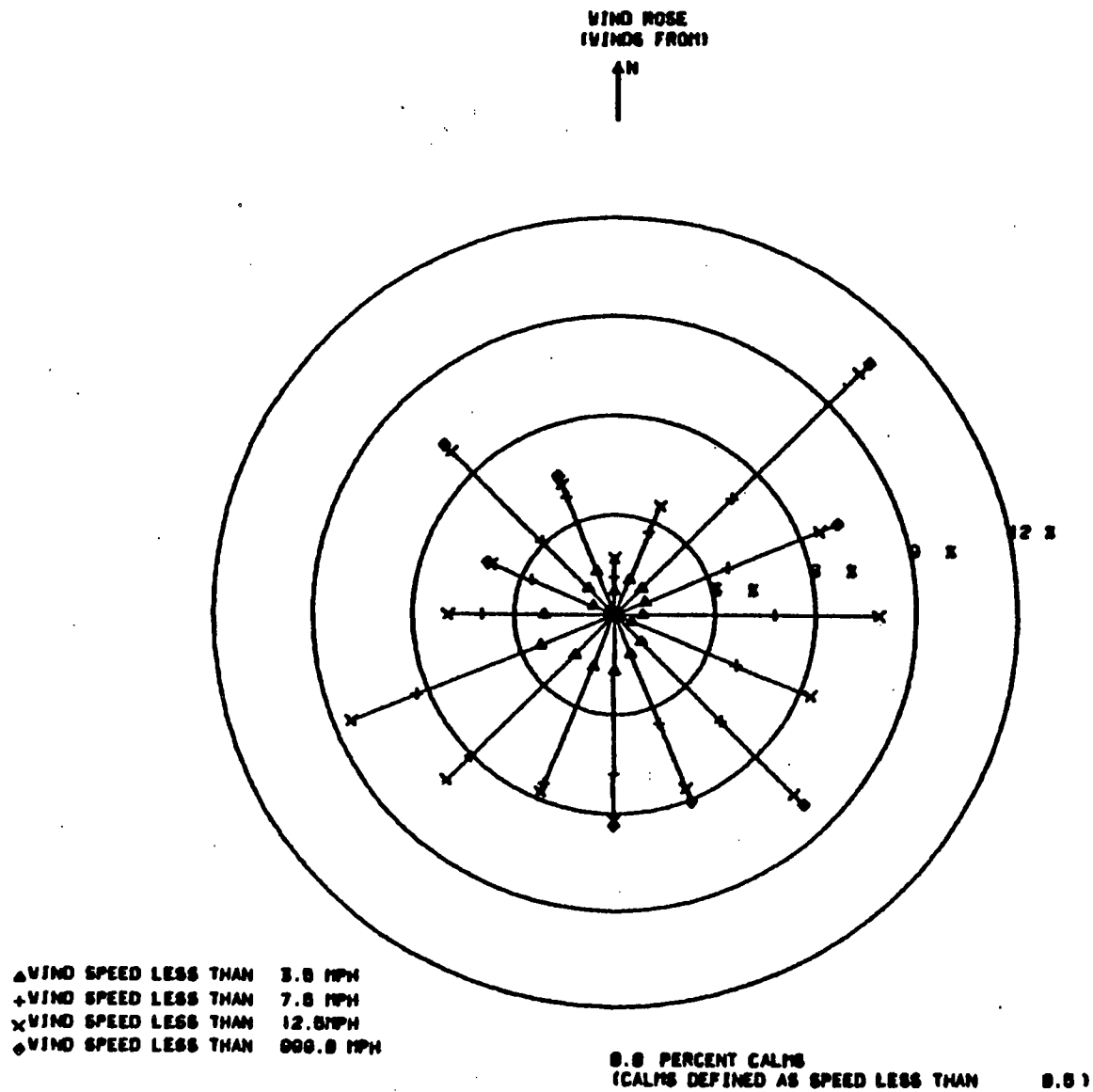
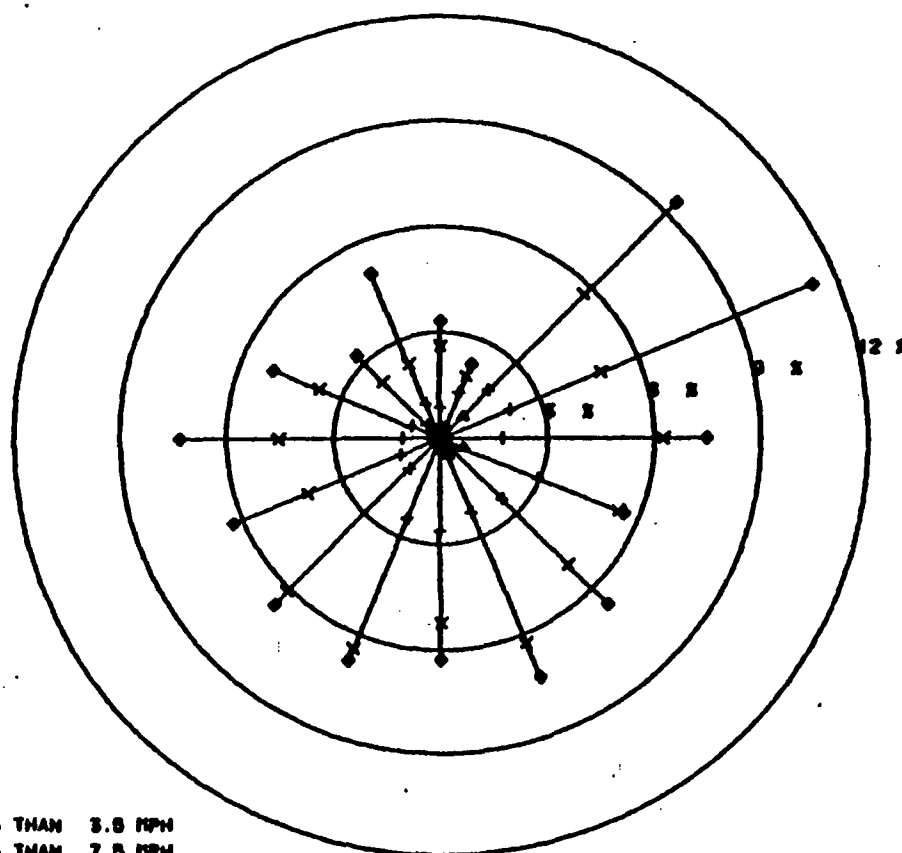


FIGURE 18
GPU NUCLEAR CORPORATION
OYSTER CREEK NUCLEAR GENERATING STATION
MAY 1982 - 150' LEVEL

WIND ROSE
(WINDS FROM)

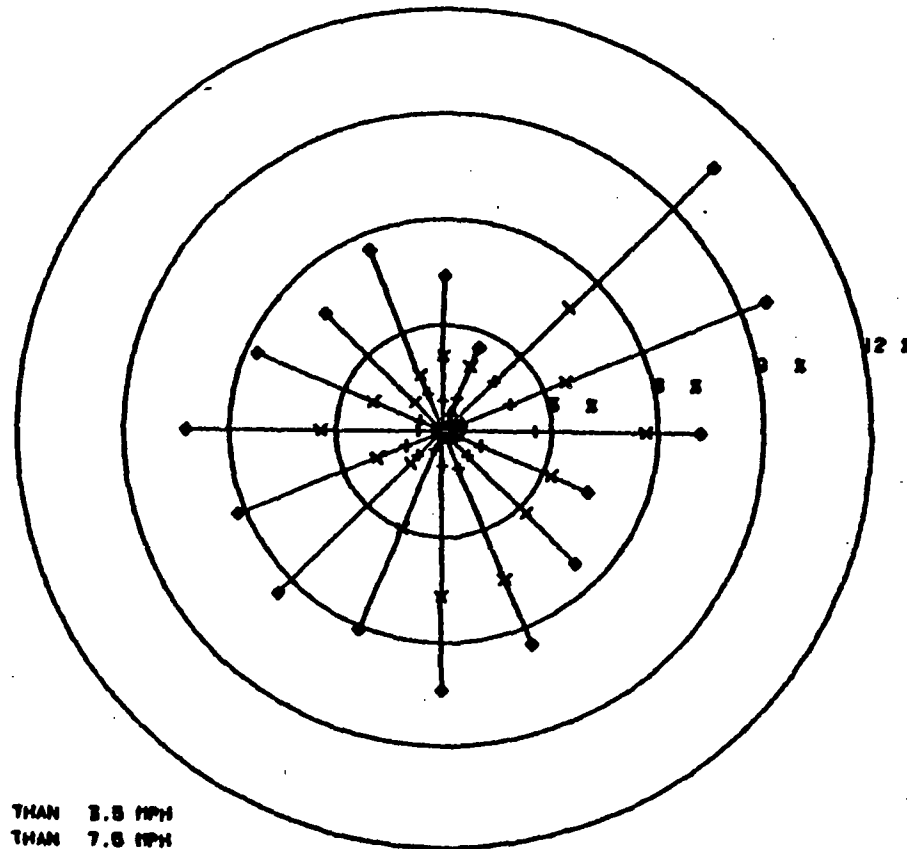


△ WIND SPEED LESS THAN 3.5 MPH
+ WIND SPEED LESS THAN 7.5 MPH
x WIND SPEED LESS THAN 12.5 MPH
◆ WIND SPEED LESS THAN 100.0 MPH

0.0 PERCENT CALMS
(CALMS DEFINED AS SPEED LESS THAN 0.5)

FIGURE 19
GPU NUCLEAR CORPORATION
OYSTER CREEK NUCLEAR GENERATING STATION
MAY 1982 - 380' LEVEL

WIND ROSE
(WINDS FROM)

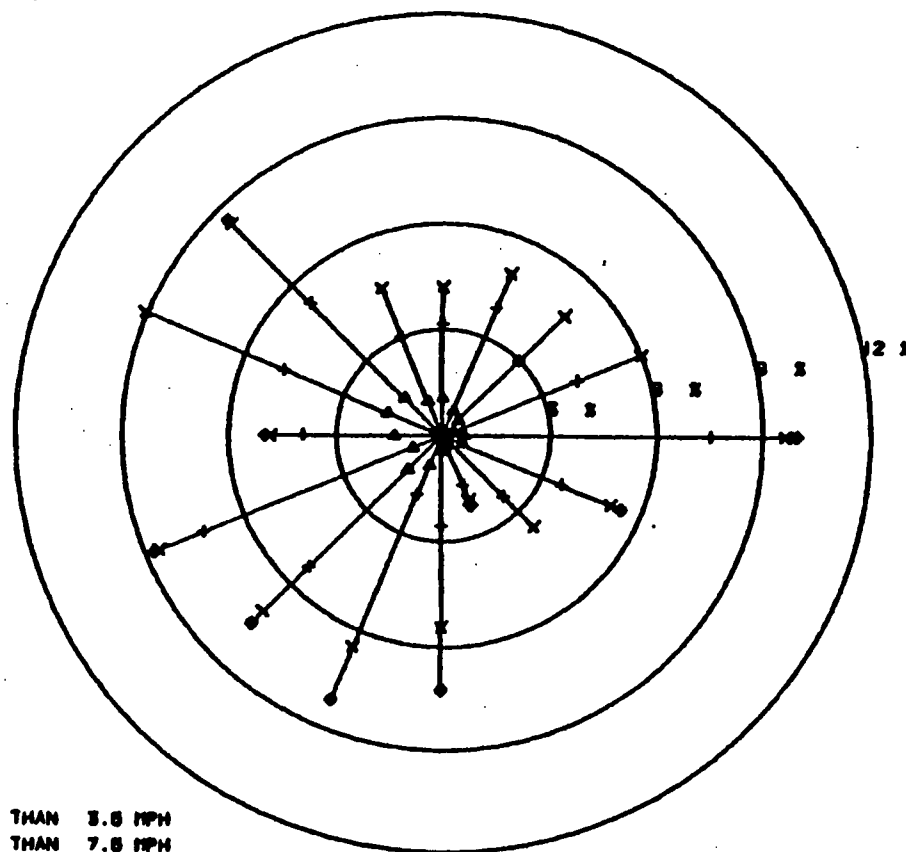


△ WIND SPEED LESS THAN 3.5 MPH
+ WIND SPEED LESS THAN 7.5 MPH
x WIND SPEED LESS THAN 12.5 MPH
◆ WIND SPEED LESS THAN 100.0 MPH

0.0 PERCENT CALMS
(CALMS DEFINED AS SPEED LESS THAN 0.5)

FIGURE 20
GPU NUCLEAR CORPORATION
OYSTER CREEK NUCLEAR GENERATING STATION
JUNE 1982 - 33' LEVEL

WIND ROSE
(WINDS FROM)



△ WIND SPEED LESS THAN 3.6 MPH
+ WIND SPEED LESS THAN 7.6 MPH
x WIND SPEED LESS THAN 12.8 MPH
◇ WIND SPEED LESS THAN 200.8 MPH

0.2 PERCENT CALMS
(CALMS DEFINED AS SPEED LESS THAN 0.5)

FIGURE 21
GPU NUCLEAR CORPORATION
OYSTER CREEK NUCLEAR GENERATING STATION
JUNE 1982 - 150' LEVEL

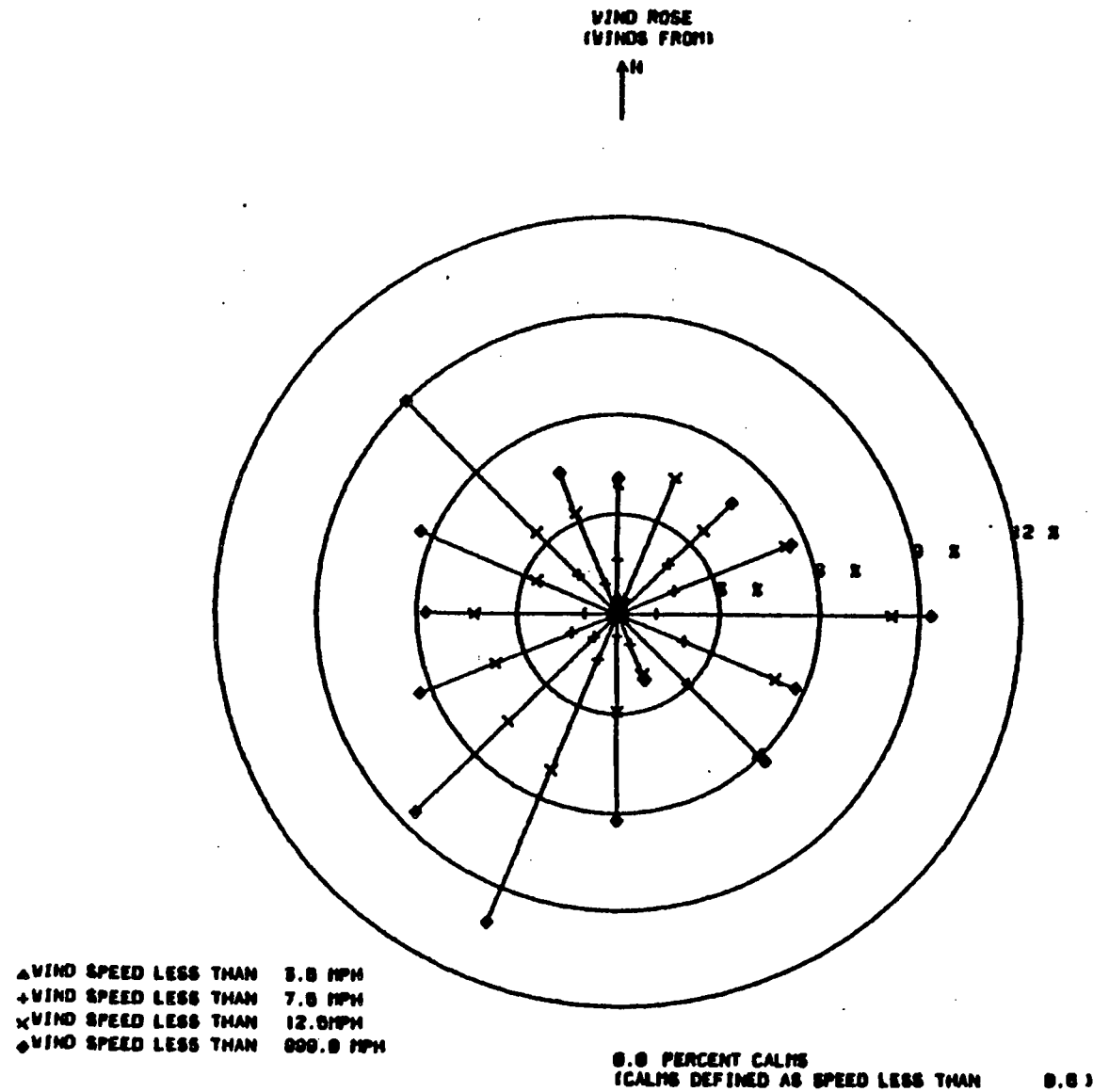


FIGURE 22
GPU NUCLEAR CORPORATION
OYSTER CREEK NUCLEAR GENERATING STATION
JUNE 1982 - 380' LEVEL

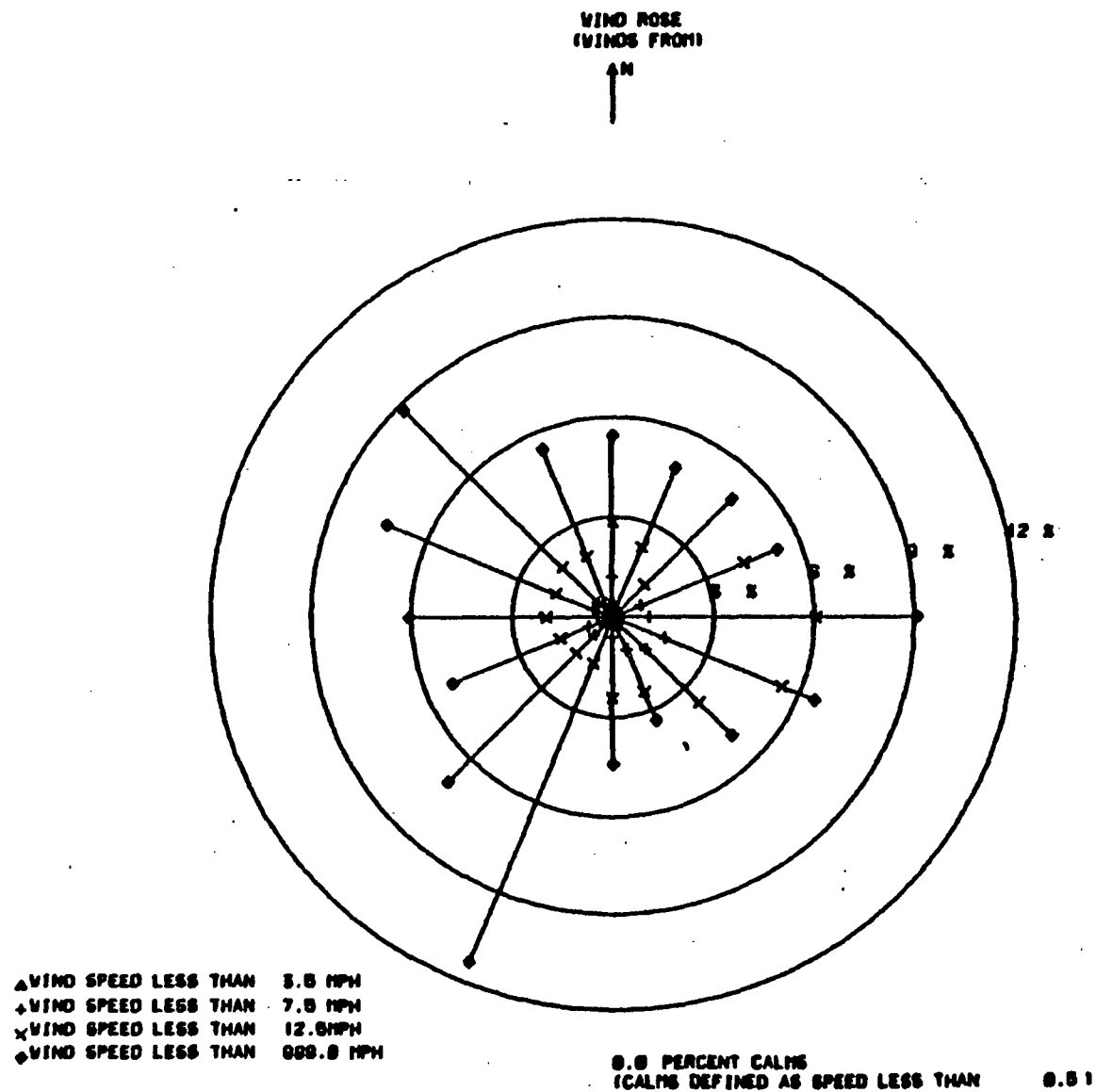


FIGURE 23
 GPU NUCLEAR CORPORATION
 OYSTER CREEK NUCLEAR GENERATING STATION
 1 DECEMBER 1981-30 JUNE 1982 - 33' LEVEL

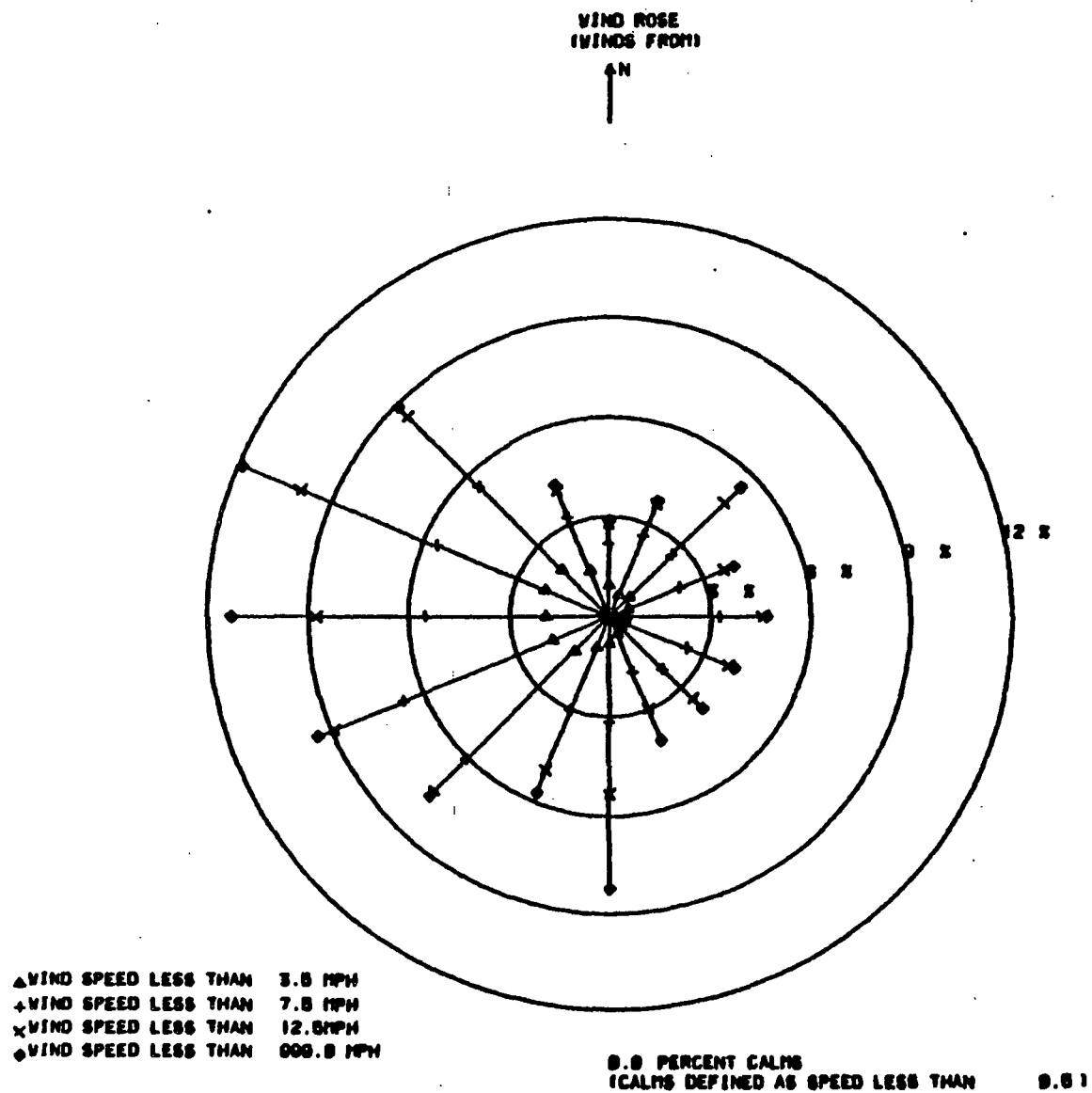


FIGURE 24
GPU NUCLEAR CORPORATION
OYSTER CREEK NUCLEAR GENERATING STATION
1 DECEMBER 1981-30 JUNE 1982 - 150' LEVEL

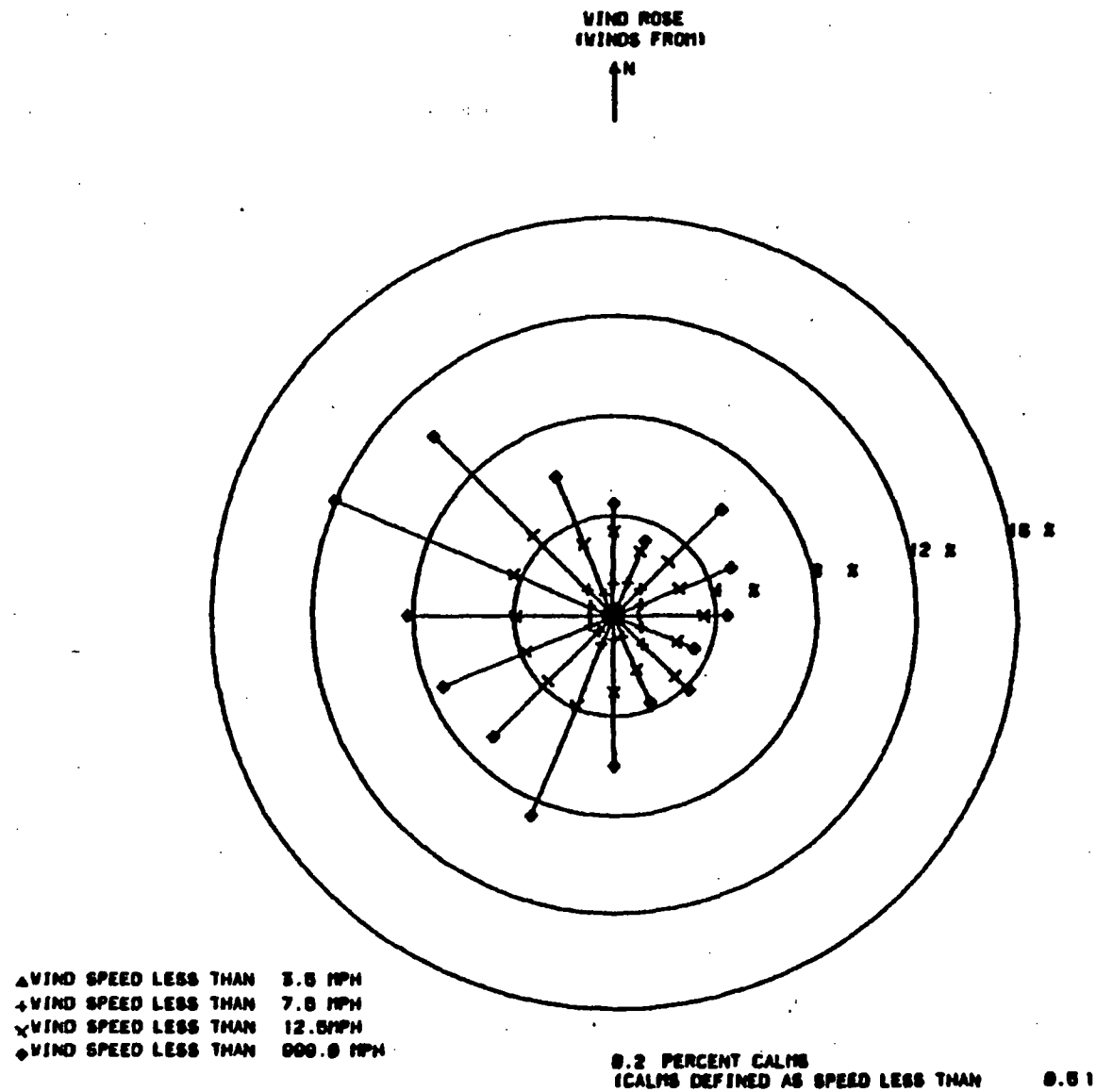
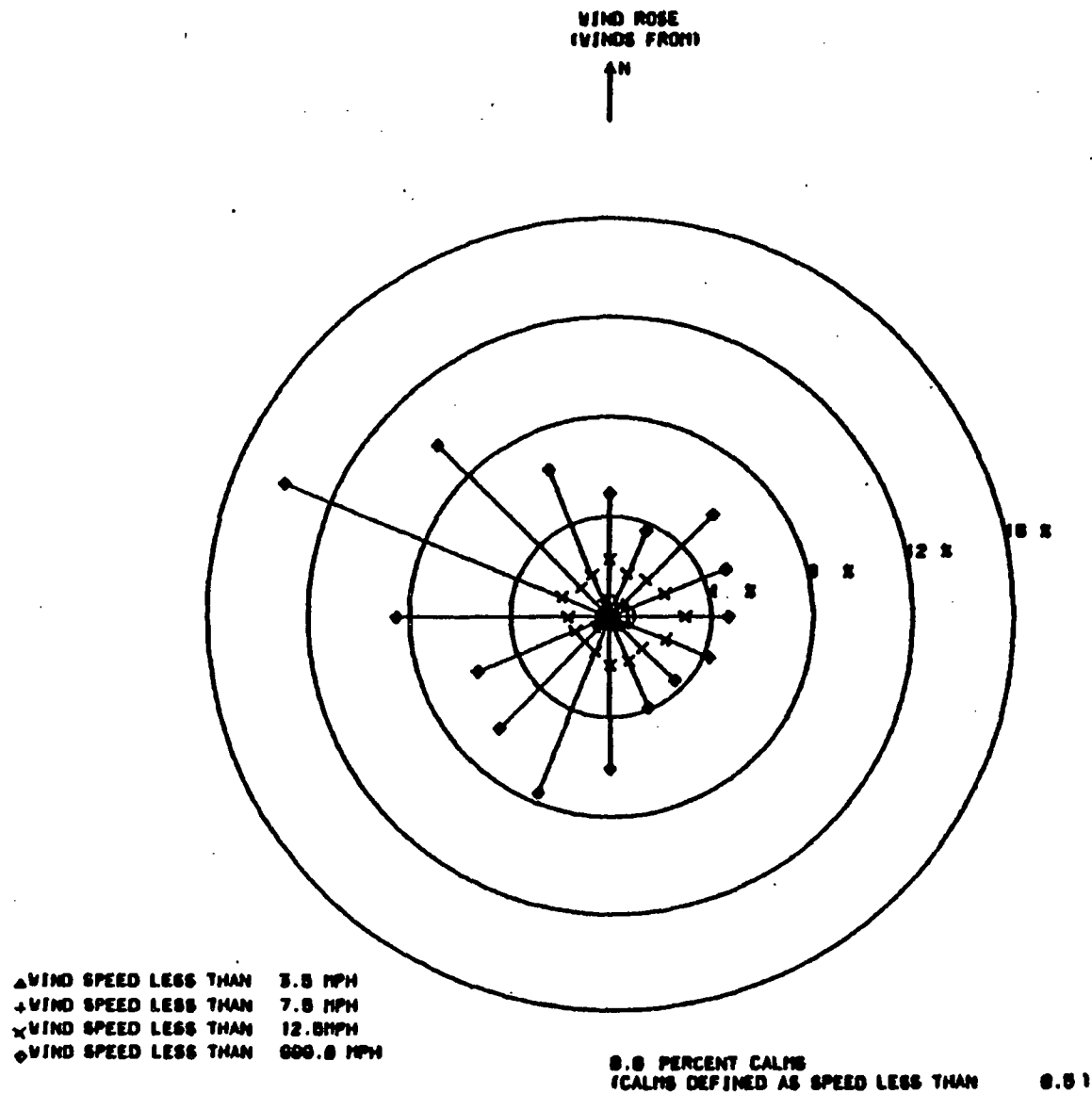


FIGURE 25
 GPU NUCLEAR CORPORATION
 OYSTER CREEK NUCLEAR GENERATING STATION
 1 DECEMBER 1981-30 JUNE 1982 - 380' LEVEL



III. RADIOLOGICAL ENVIRONMENTAL SUMMARY

SECTION III - RADIOLOGICAL ENVIRONMENTAL SUMMARY

Radiological Environmental Monitoring Program

Introduction

The Radiological Environmental Monitoring Program was conducted during the reporting period in accordance with Technical Specification 4.6.B.3. The Technical Specifications, which refer to the Application for Reactor License, Docket No. 50-219, Amendment No. 65, require five general types of monitoring: (1) atmospheric radiation, (2) fallout, (3) domestic water, (4) surface water, and (5) marine life. This monitoring was accomplished by collecting samples from the various environmental media at sample collection stations as outlined in Table 15 and Figure 26.

Specifically, film badges and thermoluminescent dosimeters (TLDs) were analyzed for immersion dose. Particulate filters, air iodine cartridges, precipitation, vegetation, soil, and crops were analyzed for atmospheric radiation and fallout. Well water, surface water, aquatic sediment, and clams were analyzed because of their close association with either plant effluents and/or man's consumption. All results from these analyses are reported in Tables 16 through 21.

During February, 1982, Surface Water, Aquatic Sediment, and Clam samples could not be collected from Stations 23 and 31 because Barnegat Bay was frozen. The following tables reflect this absence.

During the reporting period, three required uranium analyses were lost in the laboratory. Two of the samples were collected in February, 1982, at Well Water Stations 19 and 20, and the other sample was collected in April, 1982, from Well Water Station 20.

Film badges, used during the reporting period, were inadvertently exposed to gamma radiation in transit. As a result, the high levels of exposure are not representative of environmental radiation levels and in no way represent environmental impact of OCNGS operation. Thermoluminescent dosimeters, which accompanied the film badges, reflect environmental exposures.

Methods

This sampling process is conducted around the OCNGS as described below:

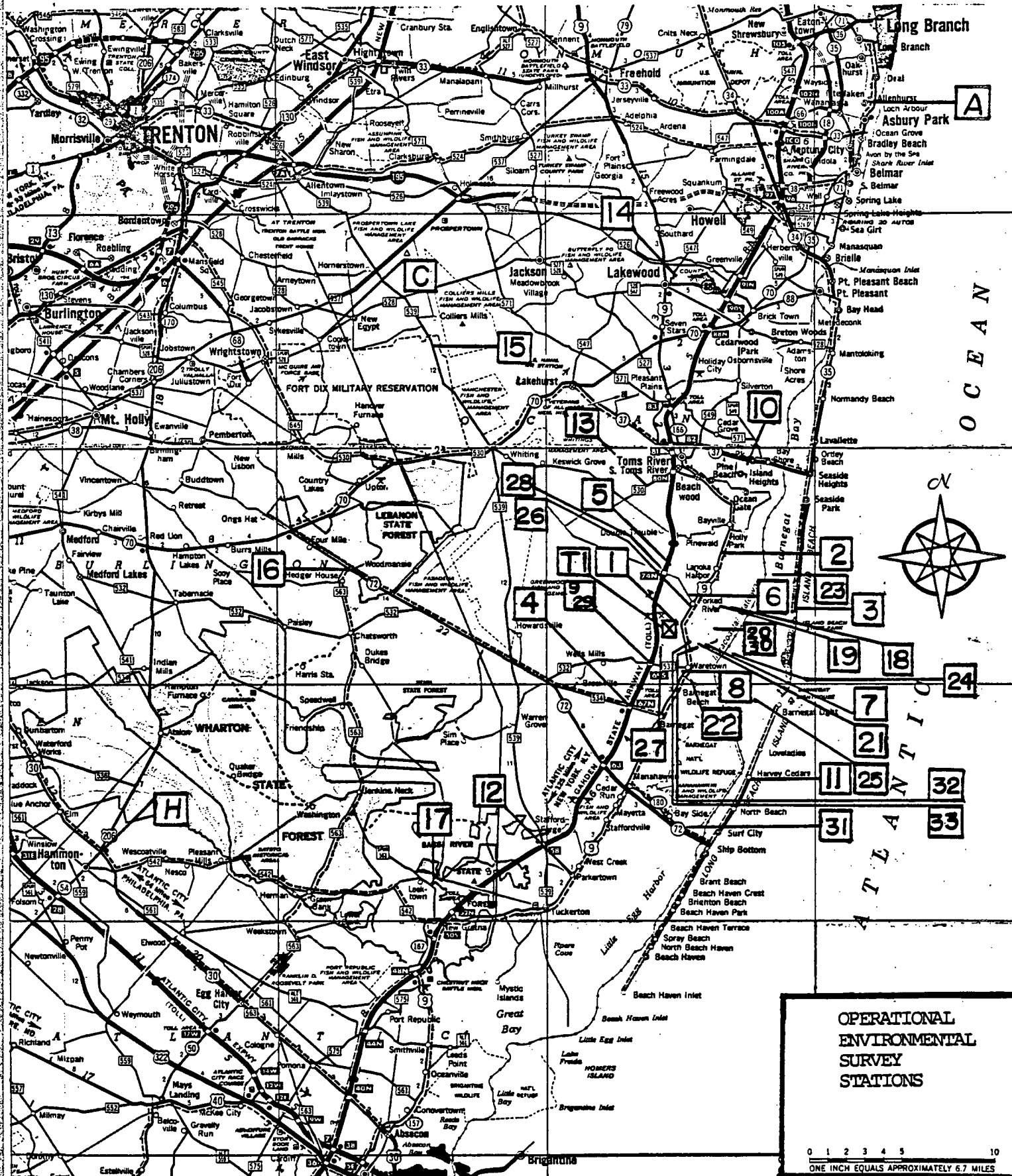
<u>Environmental Media/Pathway</u>	<u>Type of Sample</u>	<u>Method</u>
Atmosphere	Composite of Air Particulates	Direct field collection flow through air samplers and filter paper.
Atmosphere	Composite of Air Iodines	Direct field collection using flow through air samplers and air iodine cartridges.
Atmosphere	Immersion exposure	TLDs and film badges.
Surface Water	Grab Sample	Direct field collection using sample bottle.
Well Water	Grab Sample	Direct field collection using sample bottle.
Precipitation	Composite	Direct field collection using funnel and sample bottle.
Vegetation, Crops	Grab	Direct field collection using cutting devices and appropriate containers.
Soil	Grab	Direct field collection using appropriate apparatus and containers.

<u>Environmental Media/Pathway</u>	<u>Type of Sample</u>	<u>Method</u>
Aquatic Sediment	Grab	Direct field collection using appropriate apparatus and container.
Shellfish	Grab	Direct field collection using appropriate apparatus and containers.

All samples collected are processed and packed at an offsite lab near the OCNGS, then shipped to the vendor laboratories by overland courier for analysis. Vendor laboratories prepare samples as instructed by the Oyster Creek Environmental Controls Department. Radiochemical analyses are then performed by vendor laboratory, and results are sent to the Oyster Creek Environmental Controls Department. It is important to note that approved, controlled, and regulated procedures (1200 series) exist and are used in all aspects of REMP sample collection and preparation.

Data

Tables 16 through 21 present a summary of all radiological environmental data for the reporting period. These data are presented in the manner prescribed in USNRC Regulatory Guide 4.8 and USNRC Branch Technical Position.



OYSTER CREEK NUCLEAR GENERATING STATION

FIGURE 26

TABLE 15
OYSTER CREEK STATION
ENVIRONMENTAL MONITORING STATIONS
LOCATION AND SAMPLE TYPE COLLECTED

<u>STATION NUMBER</u>		<u>SAMPLE COLLECTED</u>
1	Forked River, N.J. - Oyster Creek Meteorological Tower	APT, AIO, RG, RWA, VGTN, SOIL, WWA
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.	APT, AIO, RG, RWA, VGTN, SOIL
3	Island Beach State Park, N.J. - Near old Coast Guard Station	APT, AIO, RG, RWA, VGTN, SOIL
4	Barnegat, N.J. - Route #534, Windward at Barnegat, first road West of Parkway Exit	APT, AIO, RG, RWA, VGTN, SOIL
5	Forked River, N.J. - Garden State Parkway Northbound Entrance to Holiday House	APT, AIO, RG, RWA, VGTN, SOIL
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 Supply"	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 15 (Continued)
OYSTER CREEK STATION
ENVIRONMENTAL MONITORING STATIONS
LOCATION AND SAMPLE TYPE COLLECTED

<u>STATION NUMBER</u>		<u>SAMPLE COLLECTED</u>
15	New Egypt, N.J. - Route #539, last pole on South side, adjacent to "Bomarc" 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	WWA
19	Forked River, N.J. - 1015 Inland Road, Forked River Beach	WWA
20	Forked River, N.J. - Finninger Farm at Environmental Lab	WWA
21	Waretown, N.J. - 215 Dock Avenue, Sands Point Harbor	WWA
22	Waretown, N.J. - 1014 Long John Silver Way, Skippers Cove	WWA
23	Barnegat Bay - Off Stouts Creek, approximately 400 yards SE (150°) of FL "1" (Heading on BWN "D")	SWA, AQS, CLAM
24	Barnegat Bay - Approximately 250 yards SE (180°) of FL "3" (Heading on N "66")	SWA, AQS, CLAM
25	Barnegat Bay - Off Holiday Harbor; approximately 200 yards SE (140°) of the Lagoon Mouth	SWA, AQS, CLAM
26	Forked River, N.J. - South Branch of Forked River, North of Bridge to Visitor Center	SWA, AQS
27	Forked River, N.J. - Downstream of Oyster Creek Fire Pond, approximately 10 yards	SWA, AQS
28	Forked River, N.J. - Lacey Road and the Garden State Parkway	CROP

TABLE 15 (Continued)
OYSTER CREEK STATION
ENVIRONMENTAL MONITORING STATIONS
LOCATION AND SAMPLE TYPE COLLECTED

<u>STATION NUMBER</u>		<u>SAMPLE COLLECTED</u>
29	Barneget, N.J. - Route #534 and the Garden State Parkway	CROP
30	Forked River, N.J. - Finninger Farm along Fence	CROP
31	Manahawkin Bay - Approximately 25 yards SE (140°) of C "23" and N "24"	SWA, AQS, CLAM
32	Oyster Creek - Mouth of Creek midway between Bulkhead on North Shore and South Shore of Creek	SWA, 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	SWA, AQS
A	Allenhurst, N.J. - JCP&L Company District Headquarters, on roof	APT, AIO, RG, RWA
C	Cookstown, N.J. - Route #528 Spur, at JCP&L Company District Dispatcher	APT, AIO, RG, RWA
H	Hammonton, N.J. - Egg Harbor Road, at the Atlantic City Electric District Dispatcher	APT, AIO, RG, RWA

APT = Air Particulate
AIO = Air Iodine
RG = Radiogas/Direct Radiation
RWA = Precipitation
WWA = Well Water
SWA = Surface Water
AQS = Aquatic Sediment
CLAM = Clams
CROP = Pasture/Crops
VGTN = Vegetation
SOIL = Soil

Table 16
Radiogas Film Badges *
Scheduled Collection Period
December 1, 1981 through June 30, 1982

*These data are not representative of environmental levels because of accidental exposure -
See REMP Introduction.

Collection Date		12/7/81	1/4/82	2/1/82	3/1/82	Three Month Total	3/29/82	4/26/82	5/24/82		Three Month Total	Six Month Total
Station	Unit											
1	Millirem	0	0	26	0	26	11	0	0		11	37
T1	Millirem	8	0	10	0	18	4	0	8		12	30
2	Millirem	8	0	13	0	21	4	0	0		4	25
3	Millirem	0	0	29	0	29	4	0	0		4	33
4	Millirem	0	0	13	0	13	4	0	0		4	17
5	Millirem	0	0	26	0	26	4	0	0		4	30
6	Millirem	8	3	19	0	27	4	0	0		4	31
7	Millirem	0	0	16	0	16	0	0	3		3	19
8	Millirem	0	0	32	0	32	0	0	0		0	32
9	Millirem	0	0	13	0	13	8	0	0		8	21
10	Millirem	0	0	16	0	16	8	0	0		8	24
11	Millirem	0	0	10	0	10	8	0	12		12	22
12	Millirem	0	0	42	0	42	11	0	16		27	69
13	Millirem	0	LOST	13	0	-	4	0	0		4	-
14	Millirem	15	0	16	0	31	8	0	8		16	47
15	Millirem	0	0	10	0	10	4	0	0		4	14
16	Millirem	0	0	16	0	16	4	0	0		4	20
17	Millirem	0	LOST	26	0	-	4	0	8		12	-
A	Millirem	8	0	13	0	21	4	0	12		16	37
C	Millirem	0	0	10	0	10	11	0	8		19	29
H	Millirem	8	0	19	0	27	4	0	0		4	31

TABLE 17
GAMMA DOSE TO THE ENVIRONMENT (MR)

AS MEASURED BY

THERMOLUMINESCENT DOSIMETER

FOR
DECEMBER 1981 THROUGH JUNE 6, 1982 (MONTHLY TLD READINGS)

ANALYSIS DATE:	20JAN82	12FEB82	12MAR82	08APR82	06MAY82	07JUN82									
STATION	COLLECT DATE	DOSE COLLECT DATE	DOSE COLLECT DATE	DOSE COLLECT DATE	DOSE COLLECT DATE	DOSE COLLECT DATE	3-MO TOTAL	DOSE COLLECT DATE	DOSE COLLECT DATE	DOSE COLLECT DATE	DOSE COLLECT DATE	DOSE COLLECT DATE	DOSE COLLECT DATE	3-MO TOTAL	6-MO TOTAL
A	07JAN82	5.67	03FEB82	5.50	04MAR82	5.30	16.47	31MAR82	5.72	28APR82	6.06	27MAY82	5.67	17.45	33.92
C	06JAN82	4.97	02FEB82	4.54	03MAR82	5.04	14.55	30MAR82	4.67	27APR82	4.82	24MAY82	5.07	14.56	29.11
H	06JAN82	4.70	02FEB82	4.62	03MAR82	4.71	14.03	30MAR82	4.65	27APR82	5.08	25MAY82	4.54	14.27	28.30
1	05JAN82	6.00	05FEB82	5.96	08MAR82	5.15	17.11	01APR82	5.54	29APR82	5.96	24MAY82	5.67	17.17	34.28
2	08JAN82	4.19	04FEB82	4.33	01MAR82	5.46	13.98	02APR82	3.98	26APR82	4.68	24MAY82	4.65	13.31	27.29
3	07JAN82	4.27	04FEB82	4.51	04MAR82	4.33	13.11	31MAR82	4.35	28APR82	4.86	27MAY82	4.77	13.98	27.09
4	08JAN82	4.29	05FEB82	4.31	03MAR82	5.07	13.67	30MAR82	4.27	27APR82	4.25	28MAY82	4.64	13.16	26.83
5	08JAN82	4.47	03FEB82	4.58	04MAR82	4.77	13.82	31MAR82	4.36	28APR82	6.07	28MAY82	4.88	15.31	29.13
6	05JAN82	4.30	04FEB82	4.57	05MAR82	4.74	13.61	31MAR82	4.48	28APR82	5.36	26MAY82	4.60	14.44	28.05
7	05JAN82	4.25	05FEB82	4.60	08MAR82	5.01	13.86	29MAR82	3.71	29APR82	4.48	26MAY82	4.30	12.49	26.35
8	05JAN82	4.39	05FEB82	4.12	05MAR82	4.42	12.93	01APR82	4.09	29APR82	4.79	28MAY82	4.47	13.35	26.28
9	08JAN82	4.76	05FEB82	4.80	05MAR82	4.57	14.13	29MAR82	4.76	29APR82	5.24	26MAY82	4.94	14.94	29.07
T1	05JAN82	5.00	05FEB82	5.30	08MAR82	5.48	15.78	01APR82	5.16	29APR82	6.08	24MAY82	6.09	17.33	33.11
10	07JAN82	4.32	03FEB82	4.90	04MAR82	4.65	13.87	02APR82	4.36	30APR82	4.98	27MAY82	4.20	13.54	27.41
11	08JAN82	4.03	05FEB82	4.11	08MAR82	4.03	12.17	01APR82	4.45	29APR82	4.86	28MAY82	4.16	13.47	25.64
12	08JAN82	4.46	03FEB82	4.47	03MAR82	4.09	13.02	30MAR82	4.83	29APR82	4.54	25MAY82	4.12	13.49	26.51
13	07JAN82	*	03FEB82	4.54	04MAR82	4.39	*	02APR82	4.45	30APR82	4.48	01JUN82	4.07	13.00	21.93*
14	07JAN82	5.56	03FEB82	5.20	04MAR82	5.71	16.47	31MAR82	5.65	28APR82	6.14	27MAY82	5.39	17.18	33.65
15	06JAN82	4.33	02FEB82	4.15	03MAR82	4.26	12.74	30MAR82	3.96	27APR82	5.08	25MAY82	4.33	13.37	26.11
16	08JAN82	4.23	05FEB82	4.55	05MAR82	4.75	13.53	01APR82	3.88	29APR82	4.62	28MAY82	4.65	13.15	26.68
17	06JAN82	4.74	02FEB82	4.39	03MAR82	4.72	13.85	30MAR82	4.10	27APR82	4.82	25MAY82	4.89	13.81	27.66

* TLD LOST

TABLE 18
 RADIOLOGICAL ENVIRONMENTAL MONITORING PROGRAM SUMMARY
 OYSTER CREEK NUCLEAR GENERATING STATION
 December, 1981 through June 5, 1982

The following pages are a summary of REMP data for the scheduled collection period December, 1981 thru June 5, 1982. 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	Sediment
	Air Iodine	Clams
	Precipitation	Surface Water

TABLE 19

RADIOLOGICAL ENVIRONMENTAL MONITORING PROGRAM SUMMARY
OYSTER CREEK NUCLEAR GENERATING STATION
DECEMBER, 1981 THROUGH JUNE 5, 1982
SEMI-ANNUAL 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				
					STATION	STATION-MEAN(N/TOTAL) RANGE						
VEGETATION (PCI/KG(WET))	GROSS BETA	35	2.82E+01	2.46E+03 (35 /35) (1.58E+03 - 3.70E+03)		(. . .)		1	2	3	4	5
					4	2.89E+03(7 /7) (2.30E+03 - 3.37E+03)						
AIR PARTICULATE (PCI/M3)	GROSS ALPHA	80	4.97E-04	1.61E-03 (47 /50) (6.51E-04 - 3.39E-03)		1.73E-03(29 /30) (5.33E-04 - 3.99E-03)		1	2	3	4	5
					4	1.92E-03(9 /10) (1.06E-03 - 3.39E-03)						
AIR PARTICULATE (PCI/M3)	GROSS BETA	104	4.32E-03	2.16E-02 (65 /65) (8.93E-03 - 5.49E-02)		1.90E-02(39 /39) (4.86E-03 - 4.26E-02)		1	2	3	4	5
					2	2.51E-02(13 /13) (1.19E-02 - 3.86E-02)						
AIR PARTICULATE (PCI/M3)	GELI GAMMA	CE-144	104	4.98E-02	< LLD (0 /65)	< LLD (0 /39)		1	2	3	4	5
						< LLD (0 /13)						
AIR PARTICULATE (PCI/M3)	GELI GAMMA	AG-110M	104	7.79E-03	< LLD (0 /65)	< LLD (0 /39)		1	2	3	4	5
						< LLD (0 /13)						
AIR PARTICULATE (PCI/M3)	GELI GAMMA	TE-129M	104	3.73E-01	< LLD (0 /65)	< LLD (0 /39)		1	2	3	4	5
						< LLD (0 /13)						
AIR PARTICULATE (PCI/M3)	GELI GAMMA	MO-99	74	5.27E-01	< LLD (0 /47)	< LLD (0 /27)		1	2	3	4	5
						< LLD (0 /10)						

TABLE 19 (Continued)

RADIOLOGICAL ENVIRONMENTAL MONITORING PROGRAM SUMMARY
OYSTER CREEK NUCLEAR GENERATING STATION
DECEMBER, 1981 THROUGH JUNE 5, 1982
SEMI-ANNUAL 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				
					STATION	STATION-MEAN(N/TOTAL) RANGE							
AIR PARTICULATE (PCI/M3)	GELI GAMMA	ZRNB-95	92	7.31E-03	< LLD	(0 /56)	< LLD	(0 /36)	1	2	3	4	5
							5	< LLD (0 /12)					
AIR PARTICULATE (PCI/M3)	GELI GAMMA	CS-134	104	7.21E-03	< LLD	(0 /65)	< LLD	(0 /39)	1	2	3	4	5
							5	< LLD (0 /13)					
AIR PARTICULATE (PCI/M3)	GELI GAMMA	CO-58	104	9.02E-03	< LLD	(0 /65)	< LLD	(0 /39)	1	2	3	4	5
							5	< LLD (0 /13)					
AIR PARTICULATE (PCI/M3)	GELI GAMMA	MN-54	104	8.05E-03	< LLD	(0 /65)	< LLD	(0 /39)	1	2	3	4	5
							5	< LLD (0 /13)					
AIR PARTICULATE (PCI/M3)	GELI GAMMA	TH-232	104	2.63E-02	< LLD	(0 /65)	< LLD	(0 /39)	1	2	3	4	5
							5	< LLD (0 /13)					
AIR PARTICULATE (PCI/M3)	GELI GAMMA	FE-59	104	2.01E-02	< LLD	(0 /65)	< LLD	(0 /39)	1	2	3	4	5
							5	< LLD (0 /13)					
AIR PARTICULATE (PCI/M3)	GELI GAMMA	CS-136	104	2.50E-02	< LLD	(0 /65)	< LLD	(0 /39)	1	2	3	4	5
							5	< LLD (0 /13)					

TABLE 19 (Continued)

RADIOLOGICAL ENVIRONMENTAL MONITORING PROGRAM SUMMARY
OYSTER CREEK NUCLEAR GENERATING STATION
DECEMBER, 1981 THROUGH JUNE 5, 1982
SEMI-ANNUAL 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				
					STATION		STATION-MEAN(N/TOTAL) RANGE						
AIR PARTICULATE (PCI/M3)	GELI GAMMA	ZN-65	104	1.79E-02	< LLD	(0 /65)	< LLD	(0 /39)	1	2	3	4	5
							5	< LLD (0 /13)					
AIR PARTICULATE (PCI/M3)	GELI GAMMA	CO-60	104	1.02E-02	< LLD	(0 /65)	< LLD	(0 /39)	1	2	3	4	5
							5	< LLD (0 /13)					
AIR PARTICULATE (PCI/M3)	GELI GAMMA	K-40	104	1.24E-01	< LLD	(0 /65)	< LLD	(0 /39)	1	2	3	4	5
							5	< LLD (0 /13)					
AIR PARTICULATE (PCI/M3)	GELI GAMMA	BALA-140	104	2.88E-02	< LLD	(0 /65)	< LLD	(0 /39)	1	2	3	4	5
							5	< LLD (0 /13)					
AIR PARTICULATE (PCI/M3)	GELI GAMMA	BE-7	104	9.66E-02	1.28E-01 (24 /65) (6.60E-02 - 2.30E-01)		1.38E-01(13 /39) (3.80E-02 - 2.60E-01)		1	2	3	4	5
									2	1.48E-01(6 /13) (1.00E-01 - 2.10E-01)			
AIR PARTICULATE (PCI/M3)	GELI GAMMA	ZR-95	12	2.37E-02	< LLD	(0 /9)	< LLD	(0 /3)	1	2	3	4	5
							5	< LLD (0 /1)					
AIR PARTICULATE (PCI/M3)	GELI GAMMA	NB-95	12	1.70E-02	< LLD	(0 /9)	< LLD	(0 /3)	1	2	3	4	5
							5	< LLD (0 /1)					

TABLE 19 (Continued)
 RADIOLOGICAL ENVIRONMENTAL MONITORING PROGRAM SUMMARY
 OYSTER CREEK NUCLEAR GENERATING STATION
 DECEMBER, 1981 THROUGH JUNE 5, 1982
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SAMPLE TYPE	ANALYSIS	ISOTOPE	NUMBER OF ANALYSES PERFORMED	LLD	INDICATOR-MEAN(N/TOTAL) RANGE		BACKGROUND-MEAN(N/TOTAL) RANGE		STATIONS USED FOR INDICATOR MEAN				
					STATION		STATION-MEAN(N/TOTAL) RANGE						
AIR PARTICULATE (PCI/M3)	GELI GAMMA	SB-125	104	2.17E-02	< LLD	(0 /65)		< LLD (0 /39)	1	2	3	4	5
							5	< LLD (0 /13)					
AIR PARTICULATE (PCI/M3)	GELI GAMMA	CE-141	104	1.75E-02	< LLD	(0 /65)		< LLD (0 /39)	1	2	3	4	5
							5	< LLD (0 /13)					
AIR PARTICULATE (PCI/M3)	GELI GAMMA	RU-103	104	1.09E-02	< LLD	(0 /65)		< LLD (0 /39)	1	2	3	4	5
							5	< LLD (0 /13)					
AIR PARTICULATE (PCI/M3)	GELI GAMMA	CR-51	104	1.04E-01	< LLD	(0 /65)		< LLD (0 /39)	1	2	3	4	5
							5	< LLD (0 /13)					
AIR PARTICULATE (PCI/M3)	GELI GAMMA	RA-226	104	1.60E-02	< LLD	(0 /65)		< LLD (0 /39)	1	2	3	4	5
							5	< LLD (0 /13)					
AIR PARTICULATE (PCI/M3)	GELI GAMMA	I-131	104	6.10E-02	< LLD	(0 /65)		< LLD (0 /39)	1	2	3	4	5
							5	< LLD (0 /13)					
AIR PARTICULATE (PCI/M3)	GELI GAMMA	NP-239	48	1.70E+00	< LLD	(0 /33)		< LLD (0 /15)	1	2	3	4	5
							5	< LLD (0 /7)					

TABLE 19 (Continued)
 RADIOLOGICAL ENVIRONMENTAL MONITORING PROGRAM SUMMARY
 OYSTER CREEK NUCLEAR GENERATING STATION
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SAMPLE TYPE	ANALYSIS	ISOTOPE	NUMBER OF ANALYSES PERFORMED	LLD	INDICATOR-MEAN(N/TOTAL) RANGE		BACKGROUND-MEAN(N/TOTAL) RANGE		STATIONS USED FOR INDICATOR MEAN				
						STATION	STATION-MEAN(N/TOTAL) RANGE						
AIR PARTICULATE (PCI/M3)	GELI GAMMA	RU-106	104	7.05E-02	< LLD	(0 /65)		< LLD (0 /39)	1	2	3	4	5
							5	< LLD (0 /13)					
AIR PARTICULATE (PCI/M3)	GELI GAMMA	CO-57	104	5.99E-03	< LLD	(0 /65)		< LLD (0 /39)	1	2	3	4	5
							5	< LLD (0 /13)					
AIR PARTICULATE (PCI/M3)	GELI GAMMA	CS-137	104	7.85E-03	< LLD	(0 /65)		< LLD (0 /39)	1	2	3	4	5
							5	< LLD (0 /13)					
AIR PARTICULATE (PCI/M3)	STRONTIUM-89		16	3.72E-04	9.42E-04 (3 /10) (3.35E-04 - 2.15E-03)		5.04E-04(1 /6) (5.04E-04 - 5.04E-04)	1	2	3	4	5	
						2	2.15E-03(1 /2) (2.15E-03 - 2.15E-03)						
AIR PARTICULATE (PCI/M3)	STRONTIUM-90		16	3.65E-04	5.69E-04 (6 /10) (2.50E-04 - 1.75E-03)		< LLD (0 /6)	1	2	3	4	5	
						4	1.00E-03(2 /2) (2.50E-04 - 1.75E-03)						
PRECIPITATION (PCI/L)	GROSS BETA-SS		47	1.83E+00	2.26E+00 (2 /30) (1.89E+00 - 2.63E+00)		2.37E+00(1 /17) (2.37E+00 - 2.37E+00)	1	2	3	4	5	
						5	2.63E+00(1 /6) (2.63E+00 - 2.63E+00)						
PRECIPITATION (PCI/L)	GROSS BETA-DS		48	1.90E+00	6.84E+00 (28 /30) (2.70E+00 - 1.66E+01)		7.07E+00(18 /18) (2.78E+00 - 2.04E+01)	1	2	3	4	5	
						5	8.77E+00(5 /6) (6.21E+00 - 1.43E+01)						

TABLE 19 (Continued)
 RADIOLOGICAL ENVIRONMENTAL MONITORING PROGRAM SUMMARY
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SAMPLE TYPE	ANALYSIS	ISOTOPE	NUMBER OF ANALYSES PERFORMED	LLD	INDICATOR-MEAN(N/TOTAL) RANGE		BACKGROUND-MEAN(N/TOTAL) RANGE		STATIONS USED FOR INDICATOR MEAN				
					STATION	STATION-MEAN(N/TOTAL) RANGE							
PRECIPITATION (PCI/L)	GELI GAMMA	CE-144	40	9.52E+01	< LLD	(0 /25)		< LLD (0 /15)	1	2	3	4	5
							5	< LLD (0 /5)					
PRECIPITATION (PCI/L)	GELI GAMMA	AG-110M	40	1.06E+01	< LLD	(0 /25)		< LLD (0 /15)	1	2	3	4	5
							5	< LLD (0 /5)					
PRECIPITATION (PCI/L)	GELI GAMMA	TE-129M	40	5.29E+02	< LLD	(0 /25)		< LLD (0 /15)	1	2	3	4	5
							5	< LLD (0 /5)					
PRECIPITATION (PCI/L)	GELI GAMMA	MO-99	23	7.37E+02	< LLD	(0 /17)		< LLD (0 /6)	1	2	3	4	5
							5	< LLD (0 /2)					
PRECIPITATION (PCI/L)	GELI GAMMA	ZRN8-95	13	9.39E+00	< LLD	(0 /8)		< LLD (0 /5)	1	2	3	4	5
							5	< LLD (0 /2)					
PRECIPITATION (PCI/L)	GELI GAMMA	CS-134	40	9.96E+00	< LLD	(0 /25)		< LLD (0 /15)	1	2	3	4	5
							5	< LLD (0 /5)					
PRECIPITATION (PCI/L)	GELI GAMMA	CO-58	40	1.20E+01	< LLD	(0 /25)		< LLD (0 /15)	1	2	3	4	5
							5	< LLD (0 /5)					

TABLE 19 (Continued)
 RADIOLOGICAL ENVIRONMENTAL MONITORING PROGRAM SUMMARY
 OYSTER CREEK NUCLEAR GENERATING STATION
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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
PRECIPITATION (PCI/L)	GELI GAMMA	MN-54	40	9.96E+00	< LLD (0 /25)	5	< LLD (0 /15)	1 2 3 4 5	
PRECIPITATION (PCI/L)	GELI GAMMA	TH-232	40	3.43E+01	< LLD (0 /25)	5	< LLD (0 /15)	1 2 3 4 5	
PRECIPITATION (PCI/L)	GELI GAMMA	FE-59	40	2.37E+01	< LLD (0 /25)	5	< LLD (0 /15)	1 2 3 4 5	
PRECIPITATION (PCI/L)	GELI GAMMA	CS-136	40	3.53E+01	< LLD (0 /25)	5	< LLD (0 /15)	1 2 3 4 5	
PRECIPITATION (PCI/L)	GELI GAMMA	ZN-65	40	2.05E+01	2.70E+01 (1 /25) (2.70E+01 - 2.70E+01)	5	2.70E+01(1 /5) (2.70E+01 - 2.70E+01)	1 2 3 4 5	
PRECIPITATION (PCI/L)	GELI GAMMA	CO-60	40	9.95E+00	< LLD (0 /25)	5	< LLD (0 /15)	1 2 3 4 5	
PRECIPITATION (PCI/L)	GELI GAMMA	K-40	40	1.16E+02	< LLD (0 /25)	5	< LLD (0 /15)	1 2 3 4 5	

TABLE 19 (Continued)

RADIOLOGICAL ENVIRONMENTAL MONITORING PROGRAM SUMMARY
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SAMPLE TYPE	ANALYSIS	ISOTOPE	NUMBER OF ANALYSES PERFORMED	LLD	INDICATOR-MEAN(N/TOTAL) RANGE		BACKGROUND-MEAN(N/TOTAL) RANGE		STATIONS USED FOR INDICATOR MEAN					
					STATION		STATION-MEAN(N/TOTAL) RANGE							
PRECIPITATION (PCI/L)	GELI GAMMA	BALA-140	40	3.42E+01	< LLD	(0 /25)		< LLD	(0 /15)	1	2	3	4	5
PRECIPITATION (PCI/L)	GELI GAMMA	BE-7	40	1.21E+02	< LLD	(0 /25)		< LLD	(0 /15)	1	2	3	4	5
PRECIPITATION (PCI/L)	GELI GAMMA	ZR-95	27	2.28E+01	< LLD	(0 /17)		< LLD	(0 /10)	1	2	3	4	5
PRECIPITATION (PCI/L)	GELI GAMMA	NB-95	27	1.59E+01	< LLD	(0 /17)		< LLD	(0 /10)	1	2	3	4	5
PRECIPITATION (PCI/L)	GELI GAMMA	SB-125	40	3.14E+01	< LLD	(0 /25)		< LLD	(0 /15)	1	2	3	4	5
PRECIPITATION (PCI/L)	GELI GAMMA	CE-141	40	3.33E+01	< LLD	(0 /25)		< LLD	(0 /15)	1	2	3	4	5
PRECIPITATION (PCI/L)	GELI GAMMA	RU-103	40	1.58E+01	< LLD	(0 /25)		< LLD	(0 /15)	1	2	3	4	5

TABLE 19 (Continued)
 RADIOLOGICAL ENVIRONMENTAL MONITORING PROGRAM SUMMARY
 OYSTER CREEK NUCLEAR GENERATING STATION
 DECEMBER, 1981 THROUGH JUNE 5, 1982
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SAMPLE TYPE	ANALYSIS	ISOTOPE	NUMBER OF ANALYSES PERFORMED	LLD	INDICATOR-MEAN(N/TOTAL) RANGE		BACKGROUND-MEAN(N/TOTAL) RANGE		STATIONS USED FOR INDICATOR MEAN					
						STATION	STATION-MEAN(N/TOTAL) RANGE							
PRECIPITATION (PCI/L)	GELI GAMMA	CR-51	40	1.63E+02	< LLD	(0 /25)		< LLD	(0 /15)	1	2	3	4	5
						5	< LLD (0 /5)							
PRECIPITATION (PCI/L)	GELI GAMMA	RA-226	40	2.08E+01	3.40E+01 (1 /25) (3.40E+01 - 3.40E+01)			< LLD	(0 /15)	1	2	3	4	5
						1	3.40E+01(1 /5) (3.40E+01 - 3.40E+01)							
PRECIPITATION (PCI/L)	GELI GAMMA	I-131	40	1.12E+02	< LLD	(0 /25)		< LLD	(0 /15)	1	2	3	4	5
						5	< LLD (0 /5)							
PRECIPITATION (PCI/L)	GELI GAMMA	NP-239	18	3.50E+03	< LLD	(0 /14)		< LLD	(0 /4)	1	2	3	4	5
						5	< LLD (0 /2)							
PRECIPITATION (PCI/L)	GELI GAMMA	RU-106	40	9.99E+01	< LLD	(0 /25)		< LLD	(0 /15)	1	2	3	4	5
						5	< LLD (0 /5)							
PRECIPITATION (PCI/L)	GELI GAMMA	CO-57	40	1.23E+01	< LLD	(0 /25)		< LLD	(0 /15)	1	2	3	4	5
						5	< LLD (0 /5)							
PRECIPITATION (PCI/L)	GELI GAMMA	CS-137	40	1.05E+01	< LLD	(0 /25)		< LLD	(0 /15)	1	2	3	4	5
						5	< LLD (0 /5)							

TABLE 19 (Continued)
 RADIOLOGICAL ENVIRONMENTAL MONITORING PROGRAM SUMMARY
 OYSTER CREEK NUCLEAR GENERATING STATION
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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				
PRECIPITATION (PCI/L)	TRITIUM	48	1.81E+02	4.02E+02 (1 /30) (4.02E+02 - 4.02E+02)	5	< LLD (0 /18)	4.02E+02(1 /6) (4.02E+02 - 4.02E+02)	1	2	3	4	5
PRECIPITATION (PCI/L)	STRONTIUM-89	39	1.20E+00	2.40E+00 (4 /25) (1.73E+00 - 2.74E+00)	1	1.71E+00(5 /14) (6.65E-01 - 3.12E+00)	2.74E+00(1 /5) (2.74E+00 - 2.74E+00)	1	2	3	4	5
PRECIPITATION (PCI/L)	STRONTIUM-90	39	1.12E+00	1.84E+00 (8 /25) (5.83E-01 - 3.85E+00)	3	1.13E+00(2 /14) (5.38E-01 - 1.72E+00)	3.85E+00(1 /5) (3.85E+00 - 3.85E+00)	1	2	3	4	5
AIR IODINE (PCI/M3)	IODINE-131	104	1.67E-02	< LLD (0 /65)	5	< LLD (0 /39)	< LLD (0 /13)	1	2	3	4	5
SURFACE WATER (PCI/L)	GROSS ALPHA-SS	54	3.25E-01	4.34E-01 (19 /48) (2.15E-01 - 8.61E-01)	33	4.94E-01(1 /6) (4.94E-01 - 4.94E-01)	5.62E-01(2 /7) (4.63E-01 - 6.62E-01)	23 32	24 33	25	26	27
SURFACE WATER (PCI/L)	GROSS BETA-SS	54	5.79E-01	7.82E-01 (16 /48) (3.90E-01 - 1.90E+00)	24	9.00E-01(2 /6) (7.30E-01 - 1.07E+00)	9.59E-01(4 /7) (4.80E-01 - 1.90E+00)	23 32	24 33	25	26	27

TABLE 19 (Continued)
 RADIOLOGICAL ENVIRONMENTAL MONITORING PROGRAM SUMMARY
 OYSTER CREEK NUCLEAR GENERATING STATION
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SAMPLE TYPE	ANALYSIS	ISOTOPE	NUMBER OF ANALYSES PERFORMED	LLD	INDICATOR-MEAN(N/TOTAL) RANGE		BACKGROUND-MEAN(N/TOTAL) RANGE		STATIONS USED FOR INDICATOR MEAN				
					STATION	STATION-MEAN(N/TOTAL) RANGE							
SURFACE WATER (PCI/L)	GROSS BETA-DS		54	8.26E+00	1.42E+02 (40 /48) (2.97E+00 - 2.26E+02)		1.87E+02(6 /6) (1.48E+02 - 2.45E+02)	23	24	25	26	27	
						24	1.85E+02(7 /7) (1.43E+02 - 2.26E+02)	32	33				
SURFACE WATER (PCI/L)	POTASSIUM-40		30	8.60E-01	1.56E+02 (19 /27) (1.70E+01 - 2.05E+02)		2.08E+02(3 /3) (1.70E+02 - 2.51E+02)	23	24	25	26	27	
						23	1.89E+02(3 /3) (1.69E+02 - 2.05E+02)	32	33				
SURFACE WATER (MG/L)	CALCIUM BY AA		38	8.00E-02	8.45E+01 (34 /34) (1.25E+00 - 1.95E+02)		1.52E+02(4 /4) (1.20E+02 - 2.00E+02)	23	24	25	26	27	
						25	1.40E+02(5 /5) (1.05E+02 - 1.95E+02)	32	33				
SURFACE WATER (PCI/L)	TRITIUM		54	1.77E+02	2.81E+02 (1 /48) (2.81E+02 - 2.81E+02)		< LLD (0 /6)	23	24	25	26	27	
						33	2.81E+02(1 /7) (2.81E+02 - 2.81E+02)	32	33				
SURFACE WATER (PCI/L)	IODINE-131		38	1.05E-01	< LLD (0 /34)		< LLD (0 /4)	23	24	25	26	27	
						33	< LLD (0 /5)	32	33				
SURFACE WATER (PCI/L)	NAI GAMMA	CE-144	53	6.25E+01	< LLD (0 /47)		< LLD (0 /6)	23	24	25	26	27	
						33	< LLD (0 /7)	32	33				

TABLE 19 (Continued)
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SAMPLE TYPE	ANALYSIS	ISOTOPE	NUMBER OF ANALYSES PERFORMED	LLD	INDICATOR-MEAN(N/TOTAL) RANGE		BACKGROUND-MEAN(N/TOTAL) RANGE		STATIONS USED FOR INDICATOR MEAN					
					STATION		STATION-MEAN(N/TOTAL) RANGE							
SURFACE WATER (PCI/L)	NAI GAMMA	AG-110M	54	6.24E+00	< LLD	(0 /48)		< LLD	(0 /6)	23	24	25	26	27
						33		< LLD	(0 /7)	32	33			
SURFACE WATER (PCI/L)	NAI GAMMA	TE-129M	54	1.27E+02	< LLD	(0 /48)		< LLD	(0 /6)	23	24	25	26	27
						33		< LLD	(0 /7)	32	33			
SURFACE WATER (PCI/L)	NAI GAMMA	MO-99	54	1.71E+03	< LLD	(0 /48)		< LLD	(0 /6)	23	24	25	26	27
						33		< LLD	(0 /7)	32	33			
SURFACE WATER (PCI/L)	NAI GAMMA	ZRN8-95	54	5.95E+00	< LLD	(0 /48)		< LLD	(0 /6)	23	24	25	26	27
						33		< LLD	(0 /7)	32	33			
SURFACE WATER (PCI/L)	NAI GAMMA	CS-134	54	6.01E+00	< LLD	(0 /48)		< LLD	(0 /6)	23	24	25	26	27
						33		< LLD	(0 /7)	32	33			
SURFACE WATER (PCI/L)	NAI GAMMA	CO-58	54	6.81E+00	< LLD	(0 /48)		< LLD	(0 /6)	23	24	25	26	27
						33		< LLD	(0 /7)	32	33			
SURFACE WATER (PCI/L)	NAI GAMMA	MN-54	54	6.08E+00	< LLD	(0 /48)		< LLD	(0 /6)	23	24	25	26	27
						33		< LLD	(0 /7)	32	33			

TABLE 19 (Continued)

RADIOLOGICAL ENVIRONMENTAL MONITORING PROGRAM SUMMARY
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SAMPLE TYPE	ANALYSIS	ISOTOPE	NUMBER OF ANALYSES PERFORMED	LLD	INDICATOR-MEAN(N/TOTAL) RANGE		BACKGROUND-MEAN(N/TOTAL) RANGE		STATIONS USED FOR INDICATOR MEAN				
						STATION	STATION-MEAN(N/TOTAL) RANGE						
SURFACE WATER (PCI/L)	NAI GAMMA	TH-232	54	2.13E+01	< LLD	(0 /48)	< LLD (0 /6)		23	24	25	26	27
						33	< LLD (0 /7)		32	33			
SURFACE WATER (PCI/L)	NAI GAMMA	FE-59	54	1.43E+01	< LLD	(0 /48)	< LLD (0 /6)		23	24	25	26	27
						33	< LLD (0 /7)		32	33			
SURFACE WATER (PCI/L)	NAI GAMMA	CS-136	54	1.71E+01	< LLD	(0 /48)	< LLD (0 /6)		23	24	25	26	27
						33	< LLD (0 /7)		32	33			
SURFACE WATER (PCI/L)	NAI GAMMA	TE-132	54	2.21E+02	< LLD	(0 /48)	< LLD (0 /6)		23	24	25	26	27
						33	< LLD (0 /7)		32	33			
SURFACE WATER (PCI/L)	NAI GAMMA	ZN-65	54	1.34E+01	< LLD	(0 /48)	< LLD (0 /6)		23	24	25	26	27
						33	< LLD (0 /7)		32	33			
SURFACE WATER (PCI/L)	NAI GAMMA	CO-60	54	6.26E+00	< LLD	(0 /48)	< LLD (0 /6)		23	24	25	26	27
						33	< LLD (0 /7)		32	33			
SURFACE WATER (PCI/L)	NAI GAMMA	K-40	54	8.70E+01	2.37E+02 (31 /48) (1.30E+02 - 3.40E+02)		2.85E+02 (6 /6) (2.10E+02 - 3.80E+02)		23	24	25	26	27
						23	2.68E+02 (6 /6) (2.50E+02 - 3.00E+02)		32	33			

TABLE 19 (Continued)

RADIOLOGICAL ENVIRONMENTAL MONITORING PROGRAM SUMMARY
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SAMPLE TYPE	ANALYSIS	ISOTOPE	NUMBER OF ANALYSES PERFORMED	LLD	INDICATOR-MEAN(N/TOTAL) RANGE		BACKGROUND-MEAN(N/TOTAL) RANGE		STATIONS USED FOR INDICATOR MEAN				
					STATION	STATION-MEAN(N/TOTAL) RANGE							
SURFACE WATER (PCI/L)	NAI GAMMA	BALA-140	54	1.36E+01	< LLD	(0 /48)		< LLD (0 /6)	23 32	24 33	25	26	27
							33	< LLD (0 /7)					
SURFACE WATER (PCI/L)	NAI GAMMA	BE-7	54	6.94E+01	< LLD	(0 /48)		< LLD (0 /6)	23 32	24 33	25	26	27
							33	< LLD (0 /7)					
SURFACE WATER (PCI/L)	NAI GAMMA	CR-51	54	8.51E+01	< LLD	(0 /48)		< LLD (0 /6)	23 32	24 33	25	26	27
							33	< LLD (0 /7)					
SURFACE WATER (PCI/L)	NAI GAMMA	RA-226	54	1.15E+01	< LLD	(0 /48)		< LLD (0 /6)	23 32	24 33	25	26	27
							33	< LLD (0 /7)					
SURFACE WATER (PCI/L)	NAI GAMMA	I-131	54	2.65E+01	< LLD	(0 /48)		< LLD (0 /6)	23 32	24 33	25	26	27
							33	< LLD (0 /7)					
SURFACE WATER (PCI/L)	NAI GAMMA	NA-22	54	6.27E+00	< LLD	(0 /48)		< LLD (0 /6)	23 32	24 33	25	26	27
							33	< LLD (0 /7)					
SURFACE WATER (PCI/L)	NAI GAMMA	RU-106	54	6.04E+01	< LLD	(0 /48)		< LLD (0 /6)	23 32	24 33	25	26	27
							33	< LLD (0 /7)					

TABLE 19 (Continued)

RADIOLOGICAL ENVIRONMENTAL MONITORING PROGRAM SUMMARY
OYSTER CREEK NUCLEAR GENERATING STATION
DECEMBER, 1981 THROUGH JUNE 5, 1982
SEMI-ANNUAL 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				
					STATION	STATION-MEAN(N/TOTAL) RANGE							
SURFACE WATER (PCI/L)	NAI GAMMA	I-133	54	7.22E+00	< LLD	(0 /48)	< LLD	(0 /6)	23	24	25	26	27
							32	33					
							33	< LLD (0 /7)					
SURFACE WATER (PCI/L)	NAI GAMMA	CS-137	54	6.57E+00	< LLD	(0 /48)	< LLD	(0 /6)	23	24	25	26	27
							32	33					
							33	< LLD (0 /7)					
SURFACE WATER (PCI/L)	RADIUM-226		54	6.10E-02	3.53E-01 (46 /48)		1.36E-01(6 /6)		23	24	25	26	27
					(1.03E-01 - 1.00E+00)		(9.03E-02 - 2.51E-01)	32	33				
							26	8.26E-01(7 /7)					
								(6.88E-01 - 1.00E+00)					
SURFACE WATER (PCI/L)	RADIUM-228		54	9.03E-01	9.14E-01 (5 /48)		< LLD	(0 /6)	23	24	25	26	27
					(3.38E-01 - 1.38E+00)			32	33				
							24	1.14E+00(1 /7)					
								(1.14E+00 - 1.14E+00)					
SURFACE WATER (PCI/L)	STRONTIUM-89		38	1.78E+00	7.56E-01 (12 /34)		< LLD	(0 /4)	23	24	25	26	27
					(2.80E-01 - 2.45E+00)			32	33				
							25	1.39E+00(1 /5)					
								(1.39E+00 - 1.39E+00)					
SURFACE WATER (PCI/L)	STRONTIUM-90		54	1.24E+00	1.31E+00 (12 /48)		1.73E+01(2 /6)		23	24	25	26	27
					(2.47E-01 - 3.43E+00)		(8.01E-01 - 3.37E+01)	32	33				
							23	1.92E+00(2 /6)					
								(4.20E-01 - 3.43E+00)					

TABLE 19 (Continued)

RADIOLOGICAL ENVIRONMENTAL MONITORING PROGRAM SUMMARY
OYSTER CREEK NUCLEAR GENERATING STATION
DECEMBER, 1981 THROUGH JUNE 5, 1982
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SAMPLE TYPE	ANALYSIS	ISOTOPE NUMBER OF ANALYSES PERFORMED	LLD	INDICATOR-MEAN(N/TOTAL) RANGE		BACKGROUND-MEAN(N/TOTAL) RANGE		STATIONS USED FOR INDICATOR MEAN				
				STATION		STATION-MEAN(N/TOTAL) RANGE						
SURFACE WATER (PCI/L)	TOTAL URANIUM	54	2.41E-01	1.42E+00 (38 /48) (1.40E-01 - 2.12E+00)		1.74E+00(6 /6) (1.63E+00 - 1.90E+00)		23	24	25	26	27
				25		1.80E+00(6 /7) (1.58E+00 - 1.93E+00)		32	33			
SURFACE WATER (PCI/L)	GROSS ALPHA-DS	54	5.39E-01	1.98E+00 (32 /48) (5.30E-01 - 7.62E+00)		2.15E+00(5 /6) (1.91E+00 - 2.44E+00)		23	24	25	26	27
				23		2.99E+00(5 /6) (1.68E+00 - 7.62E+00)		32	33			
WELL WATER (PCI/L)	GROSS ALPHA-SS	42	2.22E-01	2.95E-01 (2 /42) (2.30E-01 - 3.60E-01)		(. / .) (. - .)		1	18	19	20	21
				20		3.60E-01(1 /7) (3.60E-01 - 3.60E-01)		22				
WELL WATER (PCI/L)	GROSS ALPHA-DS	42	2.59E+00	4.54E+00 (12 /42) (3.08E-01 - 1.91E+01)		(. / .) (. - .)		1	18	19	20	21
				20		1.91E+01(1 /7) (1.91E+01 - 1.91E+01)		22				
WELL WATER (PCI/L)	GROSS BETA-SS	42	5.93E-01	2.00E+00 (6 /42) (8.39E-01 - 3.30E+00)		(. / .) (. - .)		1	18	19	20	21
				20		3.30E+00(1 /7) (3.30E+00 - 3.30E+00)		22				
WELL WATER (PCI/L)	GROSS BETA-DS	42	7.52E-01	2.87E+00 (35 /42) (1.38E+00 - 6.01E+00)		(. / .) (. - .)		1	18	19	20	21
				20		4.43E+00(6 /7) (3.13E+00 - 6.01E+00)		22				

TABLE 19 (Continued)

RADIOLOGICAL ENVIRONMENTAL MONITORING PROGRAM SUMMARY
OYSTER CREEK NUCLEAR GENERATING STATION
DECEMBER, 1981 THROUGH JUNE 5, 1982
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SAMPLE TYPE	ANALYSIS	ISOTOPE	NUMBER OF ANALYSES PERFORMED	LLD	INDICATOR-MEAN(N/TOTAL) RANGE	BACKGROUND-MEAN(N/TOTAL) RANGE	STATIONS USED FOR INDICATOR MEAN
					STATION	STATION-MEAN(N/TOTAL) RANGE	
WELL WATER (PCI/L)	POTASSIUM-40		12	8.60E-01	1.98E+00 (9 /12) (1.45E+00 - 3.41E+00)	(. . - . .) 2.77E+00(2 /2) (2.13E+00 - 3.41E+00)	1 18 19 20 21 22
WELL WATER (PCI/L)	GELI GAMMA	CE-144	6	7.72E+01	< LLD (0 /6)	(. . - . .) < LLD (0 /1)	1 18 19 20 21 22
WELL WATER (PCI/L)	GELI GAMMA	AG-110M	6	9.45E+00	< LLD (0 /6)	(. . - . .) < LLD (0 /1)	1 18 19 20 21 22
WELL WATER (PCI/L)	GELI GAMMA	TE-129M	6	4.02E+02	< LLD (0 /6)	(. . - . .) < LLD (0 /1)	1 18 19 20 21 22
WELL WATER (PCI/L)	GELI GAMMA	MO-99	6	5.18E+02	< LLD (0 /6)	(. . - . .) < LLD (0 /1)	1 18 19 20 21 22
WELL WATER (PCI/L)	GELI GAMMA	ZRNB-95	6	9.00E+00	< LLD (0 /6)	(. . - . .) < LLD (0 /1)	1 18 19 20 21 22
WELL WATER (PCI/L)	GELI GAMMA	CS-134	6	9.13E+00	< LLD (0 /6)	(. . - . .) < LLD (0 /1)	1 18 19 20 21 22

TABLE 19 (Continued)
 RADIOLOGICAL ENVIRONMENTAL MONITORING PROGRAM SUMMARY
 OYSTER CREEK NUCLEAR GENERATING STATION
 DECEMBER, 1981 THROUGH JUNE 5, 1982
 SEMI-ANNUAL 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
					STATION	STATION-MEAN(N/TOTAL) RANGE			
WELL WATER (PCI/L)	GELI GAMMA	CO-58	6	1.00E+01	< LLD	(0 /6)	(. . - . / .)		1 18 19 20 21 22
							< LLD (0 /1)		
WELL WATER (PCI/L)	GELI GAMMA	MN-54	6	9.15E+00	< LLD	(0 /6)	(. . - . / .)		1 18 19 20 21 22
							< LLD (0 /1)		
WELL WATER (PCI/L)	GELI GAMMA	TH-232	6	3.32E+01	< LLD	(0 /6)	(. . - . / .)		1 18 19 20 21 22
							< LLD (0 /1)		
WELL WATER (PCI/L)	GELI GAMMA	FE-59	6	1.95E+01	< LLD	(0 /6)	(. . - . / .)		1 18 19 20 21 22
							< LLD (0 /1)		
WELL WATER (PCI/L)	GELI GAMMA	CS-136	6	1.95E+01	< LLD	(0 /6)	(. . - . / .)		1 18 19 20 21 22
							< LLD (0 /1)		
WELL WATER (PCI/L)	GELI GAMMA	ZN-65	6	1.85E+01	< LLD	(0 /6)	(. . - . / .)		1 18 19 20 21 22
							< LLD (0 /1)		
WELL WATER (PCI/L)	GELI GAMMA	CO-60	6	9.23E+00	< LLD	(0 /6)	(. . - . / .)		1 18 19 20 21 22
							< LLD (0 /1)		

TABLE 19 (Continued)
 RADIOLOGICAL ENVIRONMENTAL MONITORING PROGRAM SUMMARY
 OYSTER CREEK NUCLEAR GENERATING STATION
 DECEMBER, 1981 THROUGH JUNE 5, 1982
 SEMI-ANNUAL 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
					STATION	STATION-MEAN(N/TOTAL) RANGE			
WELL WATER (PCI/L)	GELI GAMMA	K-40	6	1.48E+02	< LLD	(0 /6)	(. . - . / .)	1 18 19 20 21	22
					22	< LLD (0 /1)			
WELL WATER (PCI/L)	GELI GAMMA	BALA-140	6	1.93E+01	< LLD	(0 /6)	(. . - . / .)	1 18 19 20 21	22
					22	< LLD (0 /1)			
WELL WATER (PCI/L)	GELI GAMMA	BE-7	6	9.50E+01	< LLD	(0 /6)	(. . - . / .)	1 18 19 20 21	22
					22	< LLD (0 /1)			
WELL WATER (PCI/L)	GELI GAMMA	SB-125	6	2.75E+01	< LLD	(0 /6)	(. . - . / .)	1 18 19 20 21	22
					22	< LLD (0 /1)			
WELL WATER (PCI/L)	GELI GAMMA	CE-141	6	2.30E+01	< LLD	(0 /6)	(. . - . / .)	1 18 19 20 21	22
					22	< LLD (0 /1)			
WELL WATER (PCI/L)	GELI GAMMA	RU-103	6	1.20E+01	< LLD	(0 /6)	(. . - . / .)	1 18 19 20 21	22
					22	< LLD (0 /1)			
WELL WATER (PCI/L)	GELI GAMMA	CR-51	6	1.13E+02	< LLD	(0 /6)	(. . - . / .)	1 18 19 20 21	22
					22	< LLD (0 /1)			

TABLE 19 (Continued)
 RADIOLOGICAL ENVIRONMENTAL MONITORING PROGRAM SUMMARY
 OYSTER CREEK NUCLEAR GENERATING STATION
 DECEMBER, 1981 THROUGH JUNE 5, 1982
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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)	GELI GAMMA	RA-226	6	1.92E+01	< LLD (0 /6)	22	(. . - . / .) < LLD (0 /1)	1 18 19 20 21 22	
WELL WATER (PCI/L)	GELI GAMMA	I-131	6	3.57E+01	< LLD (0 /6)	22	(. . - . / .) < LLD (0 /1)	1 18 19 20 21 22	
WELL WATER (PCI/L)	GELI GAMMA	NP-239	4	1.70E+03	< LLD (0 /4)	20	(. . - . / .) < LLD (0 /1)	1 18 19 20	
WELL WATER (PCI/L)	GELI GAMMA	RU-106	6	8.87E+01	< LLD (0 /6)	22	(. . - . / .) < LLD (0 /1)	1 18 19 20 21 22	
WELL WATER (PCI/L)	GELI GAMMA	CO-57	6	1.01E+01	< LLD (0 /6)	22	(. . - . / .) < LLD (0 /1)	1 18 19 20 21 22	
WELL WATER (PCI/L)	GELI GAMMA	CS-137	6	9.57E+00	< LLD (0 /6)	22	(. . - . / .) < LLD (0 /1)	1 18 19 20 21 22	
WELL WATER (PCI/L)	TRITIUM		12	1.73E+02	4.61E+02 (1 /12) (4.61E+02 - 4.61E+02)	18	(. . - . / .) 4.61E+02(1 /2) (4.61E+02 - 4.61E+02)	1 18 19 20 21 22	

TABLE 19 (Continued)

RADIOLOGICAL ENVIRONMENTAL MONITORING PROGRAM SUMMARY
OYSTER CREEK NUCLEAR GENERATING STATION
DECEMBER, 1981 THROUGH JUNE 5, 1982
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SAMPLE TYPE	ANALYSIS	ISOTOPE	NUMBER OF ANALYSES PERFORMED	LLD	INDICATOR-MEAN(N/TOTAL) RANGE		BACKGROUND-MEAN(N/TOTAL) RANGE		STATIONS USED FOR INDICATOR MEAN
					STATION	STATION-MEAN(N/TOTAL) RANGE			
WELL WATER (PCI/L)	NAI GAMMA	CE-144	11	6.29E+01	< LLD	(0 /11)	(. . - . / .)		1 18 19 20 21 22
						22	< LLD (0 /2)		
WELL WATER (PCI/L)	NAI GAMMA	AG-110M	12	6.34E+00	< LLD	(0 /12)	(. . - . / .)		1 18 19 20 21 22
						22	< LLD (0 /2)		
WELL WATER (PCI/L)	NAI GAMMA	TE-129M	12	1.30E+02	< LLD	(0 /12)	(. . - . / .)		1 18 19 20 21 22
						22	< LLD (0 /2)		
WELL WATER (PCI/L)	NAI GAMMA	MO-99	12	1.70E+03	< LLD	(0 /12)	(. . - . / .)		1 18 19 20 21 22
						22	< LLD (0 /2)		
WELL WATER (PCI/L)	NAI GAMMA	ZRN8-95	12	5.95E+00	< LLD	(0 /12)	(. . - . / .)		1 18 19 20 21 22
						22	< LLD (0 /2)		
WELL WATER (PCI/L)	NAI GAMMA	CS-134	12	6.30E+00	< LLD	(0 /12)	(. . - . / .)		1 18 19 20 21 22
						22	< LLD (0 /2)		
WELL WATER (PCI/L)	NAI GAMMA	CO-58	12	6.97E+00	< LLD	(0 /12)	(. . - . / .)		1 18 19 20 21 22
						22	< LLD (0 /2)		

TABLE 19 (Continued)

RADIOLOGICAL ENVIRONMENTAL MONITORING PROGRAM SUMMARY
OYSTER CREEK NUCLEAR GENERATING STATION
DECEMBER, 1981 THROUGH JUNE 5, 1982
SEMI-ANNUAL 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
					STATION	STATION-MEAN(N/TOTAL) RANGE	
WELL WATER (PCI/L)	NAI GAMMA	MN-54	12	6.27E+00	< LLD (0 /12)	(. . - . / .) < LLD (0 /2)	1 18 19 20 21 22
WELL WATER (PCI/L)	NAI GAMMA	TH-232	12	2.35E+01	< LLD (0 /12)	(. . - . / .) < LLD (0 /2)	1 18 19 20 21 22
WELL WATER (PCI/L)	NAI GAMMA	FE-59	12	1.36E+01	< LLD (0 /12)	(. . - . / .) < LLD (0 /2)	1 18 19 20 21 22
WELL WATER (PCI/L)	NAI GAMMA	CS-136	12	1.67E+01	< LLD (0 /12)	(. . - . / .) < LLD (0 /2)	1 18 19 20 21 22
WELL WATER (PCI/L)	NAI GAMMA	TE-132	12	1.69E+02	< LLD (0 /12)	(. . - . / .) < LLD (0 /2)	1 18 19 20 21 22
WELL WATER (PCI/L)	NAI GAMMA	ZN-65	12	1.32E+01	< LLD (0 /12)	(. . - . / .) < LLD (0 /2)	1 18 19 20 21 22
WELL WATER (PCI/L)	NAI GAMMA	CO-60	12	6.47E+00	< LLD (0 /12)	(. . - . / .) < LLD (0 /2)	1 18 19 20 21 22

TABLE 19 (Continued)
 RADIOLOGICAL ENVIRONMENTAL MONITORING PROGRAM SUMMARY
 OYSTER CREEK NUCLEAR GENERATING STATION
 DECEMBER, 1981 THROUGH JUNE 5, 1982
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SAMPLE TYPE	ANALYSIS	ISOTOPE	NUMBER OF ANALYSES PERFORMED	LLD	INDICATOR-MEAN(N/TOTAL) RANGE		BACKGROUND-MEAN(N/TOTAL) RANGE		STATIONS USED FOR INDICATOR MEAN				
					STATION	STATION-MEAN(N/TOTAL) RANGE							
WELL WATER (PCI/L)	NAI GAMMA	K-40	12	7.00E+01	< LLD	(0 /12)	(. . - . / .)	1	18	19	20	21	
						22	< LLD (0 /2)	22					
WELL WATER (PCI/L)	NAI GAMMA	BALA-140	12	1.45E+01	< LLD	(0 /12)	(. . - . / .)	1	18	19	20	21	
						22	< LLD (0 /2)	22					
WELL WATER (PCI/L)	NAI GAMMA	BE-7	12	7.32E+01	< LLD	(0 /12)	(. . - . / .)	1	18	19	20	21	
						22	< LLD (0 /2)	22					
WELL WATER (PCI/L)	NAI GAMMA	CR-51	12	8.95E+01	< LLD	(0 /12)	(. . - . / .)	1	18	19	20	21	
						22	< LLD (0 /2)	22					
WELL WATER (PCI/L)	NAI GAMMA	RA-226	12	1.20E+01	< LLD	(0 /12)	(. . - . / .)	1	18	19	20	21	
						22	< LLD (0 /2)	22					
WELL WATER (PCI/L)	NAI GAMMA	I-131	12	2.63E+01	< LLD	(0 /12)	(. . - . / .)	1	18	19	20	21	
						22	< LLD (0 /2)	22					
WELL WATER (PCI/L)	NAI GAMMA	NA-22	12	6.42E+00	< LLD	(0 /12)	(. . - . / .)	1	18	19	20	21	
						22	< LLD (0 /2)	22					

TABLE 19 (Continued)
 RADIOLOGICAL ENVIRONMENTAL MONITORING PROGRAM SUMMARY
 OYSTER CREEK NUCLEAR GENERATING STATION
 DECEMBER, 1981 THROUGH JUNE 5, 1982
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SAMPLE TYPE	ANALYSIS	ISOTOPE	NUMBER OF ANALYSES PERFORMED	LLD	INDICATOR-MEAN(N/TOTAL) RANGE	BACKGROUND-MEAN(N/TOTAL) RANGE	STATIONS USED FOR INDICATOR MEAN
					STATION	STATION-MEAN(N/TOTAL) RANGE	
WELL WATER (PCI/L)	NAI GAMMA	RU-106	12	6.12E+01	< LLD (0 /12)	(. . - . .) < LLD (0 /2)	1 18 19 20 21 22
WELL WATER (PCI/L)	NAI GAMMA	I-133	12	7.53E+00	< LLD (0 /12)	(. . - . .) < LLD (0 /2)	1 18 19 20 21 22
WELL WATER (PCI/L)	NAI GAMMA	CS-137	12	7.00E+00	< LLD (0 /12)	(. . - . .) < LLD (0 /2)	1 18 19 20 21 22
WELL WATER (PCI/L)	RADIUM-226		12	6.43E-02	4.84E-01 (11 /12) (8.46E-02 - 1.25E+00)	(. . - . .) 1.25E+00(1 /2) (1.25E+00 - 1.25E+00)	1 18 19 20 21 22
WELL WATER (PCI/L)	RADIUM-228		12	8.54E-01	2.88E+00 (3 /12) (8.14E-01 - 6.70E+00)	(. . - . .) 6.70E+00(1 /2) (6.70E+00 - 6.70E+00)	1 18 19 20 21 22
WELL WATER (PCI/L)	TOTAL URANIUM		5	1.40E-01	2.50E-01 (2 /5) (2.50E-01 - 2.50E-01)	(. . - . .) 2.50E-01(1 /1) (2.50E-01 - 2.50E-01)	1 18 19 21 22 22
CLAMS (PCI/KG(WET))	GROSS ALPHA		26	1.18E+02	4.10E+02 (13 /20) (4.71E+01 - 2.26E+03)	5.28E+02(4 /6) (5.29E+01 - 1.89E+03)	23 24 25
					23	1.18E+03(2 /6) (9.69E+01 - 2.26E+03)	

TABLE 19 (Continued)
 RADIOLOGICAL ENVIRONMENTAL MONITORING PROGRAM SUMMARY
 OYSTER CREEK NUCLEAR GENERATING STATION
 DECEMBER, 1981 THROUGH JUNE 5, 1982
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SAMPLE TYPE	ANALYSIS	ISOTOPE	NUMBER OF ANALYSES PERFORMED	LLD	INDICATOR-MEAN(N/TOTAL) RANGE		BACKGROUND-MEAN(N/TOTAL) RANGE		STATIONS USED FOR INDICATOR MEAN		
					STATION		STATION-MEAN(N/TOTAL) RANGE				
CLAMS (PCI/KG(WET))	GROSS BETA		26	3.97E+01	1.23E+03 (20 /20) (3.67E+02 - 3.63E+03)		1.24E+03(6 /6) (4.43E+02 - 2.82E+03)		23	24	25
					25 1.31E+03(7 /7) (5.79E+02 - 3.63E+03)						
CLAMS (MG/GM(WET))	CALCIUM BY AA		6	3.02E-01	7.41E+01 (5 /5) (5.50E+01 - 1.05E+02)		8.25E+01(1 /1) (8.25E+01 - 8.25E+01)		23	24	25
					23 1.05E+02(1 /1) (1.05E+02 - 1.05E+02)						
CLAMS (PCI/KG(WET))	NAI GAMMA	CE-144	6	8.60E+01	< LLD (0 /5)		< LLD (0 /1)		23	24	25
					25 < LLD (0 /2)						
CLAMS (PCI/KG(WET))	NAI GAMMA	AG-110M	6	1.63E+01	< LLD (0 /5)		< LLD (0 /1)		23	24	25
					25 < LLD (0 /2)						
CLAMS (PCI/KG(WET))	NAI GAMMA	TE-129M	6	3.38E+02	< LLD (0 /5)		< LLD (0 /1)		23	24	25
					25 < LLD (0 /2)						
CLAMS (PCI/KG(WET))	NAI GAMMA	MO-99	6	9.17E+03	< LLD (0 /5)		< LLD (0 /1)		23	24	25
					25 < LLD (0 /2)						
CLAMS (PCI/KG(WET))	NAI GAMMA	ZRN9-95	6	1.82E+01	< LLD (0 /5)		< LLD (0 /1)		23	24	25
					25 < LLD (0 /2)						

TABLE 19 (Continued)
 RADIOLOGICAL ENVIRONMENTAL MONITORING PROGRAM SUMMARY
 OYSTER CREEK NUCLEAR GENERATING STATION
 DECEMBER, 1981 THROUGH JUNE 5, 1982
 SEMI-ANNUAL 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		
					STATION	STATION-MEAN(N/TOTAL) RANGE					
CLAMS (PCI/KG(WET))	NAI GAMMA	CS-134	6	1.87E+01	< LLD	(0 /5)	< LLD	(0 /1)	23	24	25
							25	< LLD (0 /2)			
CLAMS (PCI/KG(WET))	NAI GAMMA	CO-58	6	2.17E+01	< LLD	(0 /5)	< LLD	(0 /1)	23	24	25
							25	< LLD (0 /2)			
CLAMS (PCI/KG(WET))	NAI GAMMA	MN-54	6	1.87E+01	< LLD	(0 /5)	< LLD	(0 /1)	23	24	25
							25	< LLD (0 /2)			
CLAMS (PCI/KG(WET))	NAI GAMMA	TH-232	6	5.95E+01	< LLD	(0 /5)	< LLD	(0 /1)	23	24	25
							25	< LLD (0 /2)			
CLAMS (PCI/KG(WET))	NAI GAMMA	FE-59	6	4.13E+01	< LLD	(0 /5)	< LLD	(0 /1)	23	24	25
							25	< LLD (0 /2)			
CLAMS (PCI/KG(WET))	NAI GAMMA	CS-136	6	5.42E+01	< LLD	(0 /5)	< LLD	(0 /1)	23	24	25
							25	< LLD (0 /2)			
CLAMS (PCI/KG(WET))	NAI GAMMA	TE-132	6	4.70E+02	< LLD	(0 /5)	< LLD	(0 /1)	23	24	25
							25	< LLD (0 /2)			

TABLE 19 (Continued)

RADIOLOGICAL ENVIRONMENTAL MONITORING PROGRAM SUMMARY
OYSTER CREEK NUCLEAR GENERATING STATION
DECEMBER, 1981 THROUGH JUNE 5, 1982
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SAMPLE TYPE	ANALYSIS	ISOTOPE	NUMBER OF ANALYSES PERFORMED	LLD	INDICATOR-MEAN(N/TOTAL) RANGE		BACKGROUND-MEAN(N/TOTAL) RANGE		STATIONS USED FOR INDICATOR MEAN		
					STATION	STATION-MEAN(N/TOTAL) RANGE					
CLAMS (PCI/KG(WET))	NAI GAMMA	ZN-65	6	4.07E+01	< LLD	(0 /5)	< LLD	(0 /1)	23	24	25
							25	< LLD (0 /2)			
CLAMS (PCI/KG(WET))	NAI GAMMA	CO-60	6	2.33E+01	< LLD	(0 /5)	< LLD	(0 /1)	23	24	25
							25	< LLD (0 /2)			
CLAMS (PCI/KG(WET))	NAI GAMMA	K-40	6	2.33E+02	4.25E+02 (4 /5) (1.10E+00 - 7.40E+02)		8.00E+02(1 /1) (8.00E+02 - 8.00E+02)		23	24	25
							24				
CLAMS (PCI/KG(WET))	NAI GAMMA	BALA-140	6	4.80E+01	< LLD	(0 /5)	< LLD	(0 /1)	23	24	25
							25	< LLD (0 /2)			
CLAMS (PCI/KG(WET))	NAI GAMMA	BE-7	6	1.33E+02	< LLD	(0 /5)	< LLD	(0 /1)	23	24	25
							25	< LLD (0 /2)			
CLAMS (PCI/KG(WET))	NAI GAMMA	CR-51	6	1.57E+02	< LLD	(0 /5)	< LLD	(0 /1)	23	24	25
							25	< LLD (0 /2)			
CLAMS (PCI/KG(WET))	NAI GAMMA	RA-226	6	3.13E+01	< LLD	(0 /5)	< LLD	(0 /1)	23	24	25
							25	< LLD (0 /2)			

TABLE 19 (Continued)

RADIOLOGICAL ENVIRONMENTAL MONITORING PROGRAM SUMMARY
OYSTER CREEK NUCLEAR GENERATING STATION
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SAMPLE TYPE	ANALYSIS	ISOTOPE	NUMBER OF ANALYSES PERFORMED	LLD	INDICATOR-MEAN(N/TOTAL) RANGE		BACKGROUND-MEAN(N/TOTAL) RANGE		STATIONS USED FOR INDICATOR MEAN		
					STATION	STATION-MEAN(N/TOTAL) RANGE					
CLAMS (PCI/KG(WET))	NAI GAMMA	I-131	6	6.15E+01	< LLD	(0 /5)	< LLD	(0 /1)	23	24	25
							25	< LLD (0 /2)			
CLAMS (PCI/KG(WET))	NAI GAMMA	NA-22	6	2.07E+01	< LLD	(0 /5)	< LLD	(0 /1)	23	24	25
							25	< LLD (0 /2)			
CLAMS (PCI/KG(WET))	NAI GAMMA	RU-106	6	1.33E+02	< LLD	(0 /5)	< LLD	(0 /1)	23	24	25
							25	< LLD (0 /2)			
CLAMS (PCI/KG(WET))	NAI GAMMA	I-133	6	2.07E+01	< LLD	(0 /5)	< LLD	(0 /1)	23	24	25
							25	< LLD (0 /2)			
CLAMS (PCI/KG(WET))	NAI GAMMA	CS-137	6	1.82E+01	< LLD	(0 /5)	< LLD	(0 /1)	23	24	25
							25	< LLD (0 /2)			
CLAMS (PCI/KG(WET))	STRONTIUM-89		10	1.61E+01	< LLD	(0 /8)	< LLD	(0 /2)	23	24	25
							25	< LLD (0 /3)			
CLAMS (PCI/KG(WET))	STRONTIUM-90		10	1.51E+01	7.87E+00 (3 /8) (4.20E+00 - 1.40E+01)		6.71E+00(1 /2) (6.71E+00 - 6.71E+00)		23	24	25
							23				

TABLE 19 (Continued)

RADIOLOGICAL ENVIRONMENTAL MONITORING PROGRAM SUMMARY
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SAMPLE TYPE	ANALYSIS	ISOTOPE	NUMBER OF ANALYSES PERFORMED	LLD	INDICATOR-MEAN(N/TOTAL) RANGE		BACKGROUND-MEAN(N/TOTAL) RANGE		STATIONS USED FOR INDICATOR MEAN					
						STATION	STATION-MEAN(N/TOTAL) RANGE							
SOIL (PCI/KG(DRY))	GROSS BETA		35	1.69E+03	5.54E+03 (34 /35) (1.63E+03 - 1.28E+04)			(. . .)		1	2	3	4	5
						5	8.18E+03(7 /7) (3.47E+03 - 1.28E+04)							
SOIL (PCI/KG(DRY))	GELI GAMMA	CE-144	10	1.45E+02	3.80E+02 (1 /10) (3.80E+02 - 3.80E+02)			(. . .)		1	2	3	4	5
						5	3.80E+02(1 /2) (3.80E+02 - 3.80E+02)							
SOIL (PCI/KG(DRY))	GELI GAMMA	AG-110M	10	5.60E+01	< LLD (0 /10)			(. . .)		1	2	3	4	5
						5	< LLD (0 /2)							
SOIL (PCI/KG(DRY))	GELI GAMMA	TE-129M	10	1.58E+03	< LLD (0 /10)			(. . .)		1	2	3	4	5
						5	< LLD (0 /2)							
SOIL (PCI/KG(DRY))	GELI GAMMA	ZRNB-95	10	2.14E+01	< LLD (0 /10)			(. . .)		1	2	3	4	5
						5	< LLD (0 /2)							
SOIL (PCI/KG(DRY))	GELI GAMMA	CS-134	10	2.27E+01	< LLD (0 /10)			(. . .)		1	2	3	4	5
						5	< LLD (0 /2)							
SOIL (PCI/KG(DRY))	GELI GAMMA	CO-58	10	2.61E+01	< LLD (0 /10)			(. . .)		1	2	3	4	5
						5	< LLD (0 /2)							

TABLE 19 (Continued)

RADIOLOGICAL ENVIRONMENTAL MONITORING PROGRAM SUMMARY
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DECEMBER, 1981 THROUGH JUNE 5, 1982
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SAMPLE TYPE	ANALYSIS	ISOTOPE	NUMBER OF ANALYSES PERFORMED	LLD	INDICATOR-MEAN(N/TOTAL) RANGE		BACKGROUND-MEAN(N/TOTAL) RANGE		STATIONS USED FOR INDICATOR MEAN				
					STATION	STATION-MEAN(N/TOTAL) RANGE							
SOIL (PCI/KG(DRY))	GELI GAMMA	MN-54	10	2.09E+01	< LLD	(0 /10)	(. . .)		1	2	3	4	5
							5	< LLD (0 /2)					
SOIL (PCI/KG(DRY))	GELI GAMMA	TH-232	10	7.14E+01	4.42E+02 (10 /10) (.2.70E+02 - 7.30E+02)		(. . .)		1	2	3	4	5
							4	6.10E+02(2 /2) (4.90E+02 - 7.30E+02)					
SOIL (PCI/KG(DRY))	GELI GAMMA	FE-59	10	6.49E+01	< LLD	(0 /10)	(. . .)		1	2	3	4	5
							5	< LLD (0 /2)					
SOIL (PCI/KG(DRY))	GELI GAMMA	CS-136	10	3.51E+02	< LLD	(0 /10)	(. . .)		1	2	3	4	5
							5	< LLD (0 /2)					
SOIL (PCI/KG(DRY))	GELI GAMMA	ZN-65	10	4.92E+01	< LLD	(0 /10)	(. . .)		1	2	3	4	5
							5	< LLD (0 /2)					
SOIL (PCI/KG(DRY))	GELI GAMMA	CO-60	10	2.26E+01	< LLD	(0 /10)	(. . .)		1	2	3	4	5
							5	< LLD (0 /2)					
SOIL (PCI/KG(DRY))	GELI GAMMA	K-40	10	2.45E+02	1.92E+03 (9 /10) (9.70E+02 - 4.40E+03)		(. . .)		1	2	3	4	5
							4	3.30E+03(2 /2) (2.20E+03 - 4.40E+03)					

TABLE 19 (Continued)

RADIOLOGICAL ENVIRONMENTAL MONITORING PROGRAM SUMMARY
OYSTER CREEK NUCLEAR GENERATING STATION
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SAMPLE TYPE	ANALYSIS	ISOTOPE	NUMBER OF ANALYSES PERFORMED	LLD	INDICATOR-MEAN(N/TOTAL) RANGE		BACKGROUND-MEAN(N/TOTAL) RANGE		STATIONS USED FOR INDICATOR MEAN
					STATION	STATION-MEAN(N/TOTAL) RANGE			
SOIL (PCI/KG(DRY))	GELI GAMMA	BALA-140	10	4.48E+02	< LLD (0 /10)		(. . - (. / .))		1 2 3 4 5
						5	< LLD (0 /2)		
SOIL (PCI/KG(DRY))	GELI GAMMA	BE-7	10	3.38E+02	1.60E+03 (1 /10) (1.60E+03 - 1.60E+03)		(. . - (. / .))		1 2 3 4 5
						5	1.60E+03(1 /2) (1.60E+03 - 1.60E+03)		
SOIL (PCI/KG(DRY))	GELI GAMMA	SB-125	10	6.40E+01	1.10E+02 (1 /10) (1.10E+02 - 1.10E+02)		(. . - (. / .))		1 2 3 4 5
						5	1.10E+02(1 /2) (1.10E+02 - 1.10E+02)		
SOIL (PCI/KG(DRY))	GELI GAMMA	CE-141	10	8.80E+01	< LLD (0 /10)		(. . - (. / .))		1 2 3 4 5
						5	< LLD (0 /2)		
SOIL (PCI/KG(DRY))	GELI GAMMA	RU-103	10	4.62E+01	< LLD (0 /10)		(. . - (. / .))		1 2 3 4 5
						5	< LLD (0 /2)		
SOIL (PCI/KG(DRY))	GELI GAMMA	CR-51	10	5.54E+02	< LLD (0 /10)		(. . - (. / .))		1 2 3 4 5
						5	< LLD (0 /2)		
SOIL (PCI/KG(DRY))	GELI GAMMA	RA-226	10	4.84E+01	4.56E+02 (10 /10) (3.00E+02 - 6.30E+02)		(. . - (. / .))		1 2 3 4 5
						5	5.45E+02(2 /2) (4.80E+02 - 6.10E+02)		

TABLE 19 (Continued)
 RADIOLOGICAL ENVIRONMENTAL MONITORING PROGRAM SUMMARY
 OYSTER CREEK NUCLEAR GENERATING STATION
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SAMPLE TYPE	ANALYSIS	ISOTOPE	NUMBER OF ANALYSES PERFORMED	LLD	INDICATOR-MEAN(N/TOTAL) RANGE	BACKGROUND-MEAN(N/TOTAL) RANGE	STATIONS USED FOR INDICATOR MEAN
					STATION	STATION-MEAN(N/TOTAL) RANGE	
SOIL (PCI/KG(DRY))	GELI GAMMA	I-131	8	7.39E+02	< LLD (0 / 8)	(. . - (. / .))	1 2 3 4 5
					5	< LLD (0 / 2)	
SOIL (PCI/KG(DRY))	GELI GAMMA	RU-106	10	1.81E+02	< LLD (0 / 10)	(. . - (. / .))	1 2 3 4 5
					5	< LLD (0 / 2)	
SOIL (PCI/KG(DRY))	GELI GAMMA	CO-57	10	1.75E+01	< LLD (0 / 10)	(. . - (. / .))	1 2 3 4 5
					5	< LLD (0 / 2)	
SOIL (PCI/KG(DRY))	GELI GAMMA	CS-137	10	2.42E+01	9.52E+02 (10 / 10) (2.50E+01 - 3.00E+03)	(. . - (. / .))	1 2 3 4 5
					5	1.91E+03(2 / 2) (8.20E+02 - 3.00E+03)	
PASTURE (PCI/KG(WET))	GROSS BETA		6	2.89E+01	3.28E+03 (6 / 6) (2.27E+03 - 4.17E+03)	(. . - (. / .))	28 29 30
					29	3.75E+03(2 / 2) (3.75E+03 - 3.76E+03)	
PASTURE (MG/GM(WET))	CALCIUM BY AA		6	2.74E-01	6.11E+01 (6 / 6) (3.50E+01 - 7.75E+01)	(. . - (. / .))	28 29 30
					29	7.34E+01(2 / 2) (6.93E+01 - 7.75E+01)	
PASTURE (PCI/KG(WET))	NAI GAMMA	CE-144	6	6.45E+02	< LLD (0 / 6)	(. . - (. / .))	28 29 30
					30	< LLD (0 / 2)	

TABLE 19 (Continued)

RADIOLOGICAL ENVIRONMENTAL MONITORING PROGRAM SUMMARY
OYSTER CREEK NUCLEAR GENERATING STATION
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SAMPLE TYPE	ANALYSIS	ISOTOPE	NUMBER OF ANALYSES PERFORMED	LLD	INDICATOR-MEAN(N/TOTAL) RANGE		BACKGROUND-MEAN(N/TOTAL) RANGE		STATIONS USED FOR INDICATOR MEAN
					STATION	STATION-MEAN(N/TOTAL) RANGE			
PASTURE (PCI/KG(WET))	NAI GAMMA	AG-110M	6	1.60E+02	< LLD	(0 /6)	(. . - . / .)		28 29 30
						30	< LLD (0 /2)		
PASTURE (PCI/KG(WET))	NAI GAMMA	TE-129M	6	3.15E+03	< LLD	(0 /6)	(. . - . / .)		28 29 30
						30	< LLD (0 /2)		
PASTURE (PCI/KG(WET))	NAI GAMMA	MO-99	6	1.62E+05	< LLD	(0 /6)	(. . - . / .)		28 29 30
						30	< LLD (0 /2)		
PASTURE (PCI/KG(WET))	NAI GAMMA	ZRNB-95	6	1.51E+02	< LLD	(0 /6)	(. . - . / .)		28 29 30
						30	< LLD (0 /2)		
PASTURE (PCI/KG(WET))	NAI GAMMA	CS-134	6	1.51E+02	< LLD	(0 /6)	(. . - . / .)		28 29 30
						30	< LLD (0 /2)		
PASTURE (PCI/KG(WET))	NAI GAMMA	CO-58	6	1.75E+02	< LLD	(0 /6)	(. . - . / .)		28 29 30
						30	< LLD (0 /2)		
PASTURE (PCI/KG(WET))	NAI GAMMA	MN-54	6	1.55E+02	< LLD	(0 /6)	(. . - . / .)		28 29 30
						30	< LLD (0 /2)		

TABLE 19 (Continued)
 RADIOLOGICAL ENVIRONMENTAL MONITORING PROGRAM SUMMARY
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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
PASTURE (PCI/KG(WET))	NAI GAMMA	TH-232	6	5.72E+02	< LLD (0 /6)		(. . - . / .)		28 29 30
						30	< LLD (0 /2)		
PASTURE (PCI/KG(WET))	NAI GAMMA	FE-59	6	3.30E+02	< LLD (0 /6)		(. . - . / .)		28 29 30
						30	< LLD (0 /2)		
PASTURE (PCI/KG(WET))	NAI GAMMA	CS-136	6	4.83E+02	< LLD (0 /6)		(. . - . / .)		28 29 30
						30	< LLD (0 /2)		
PASTURE (PCI/KG(WET))	NAI GAMMA	TE-132	6	7.87E+03	< LLD (0 /6)		(. . - . / .)		28 29 30
						30	< LLD (0 /2)		
PASTURE (PCI/KG(WET))	NAI GAMMA	ZN-65	6	3.52E+02	< LLD (0 /6)		(. . - . / .)		28 29 30
						30	< LLD (0 /2)		
PASTURE (PCI/KG(WET))	NAI GAMMA	CO-60	6	1.63E+02	< LLD (0 /6)		(. . - . / .)		28 29 30
						30	< LLD (0 /2)		
PASTURE (PCI/KG(WET))	NAI GAMMA	K-40	6	1.97E+03	< LLD (0 /6)		(. . - . / .)		28 29 30
						30	< LLD (0 /2)		

TABLE 19 (Continued)

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SAMPLE TYPE	ANALYSIS	ISOTOPE	NUMBER OF ANALYSES PERFORMED	LLD	INDICATOR-MEAN(N/TOTAL) RANGE		BACKGROUND-MEAN(N/TOTAL) RANGE		STATIONS USED FOR INDICATOR MEAN		
						STATION	STATION-MEAN(N/TOTAL) RANGE				
PASTURE (PCI/KG(WET))	NAI GAMMA	BALA-140	6	4.07E+02	< LLD	(0 /6)		(. . - (. / .))	28	29	30
						30	< LLD (0 /2)				
PASTURE (PCI/KG(WET))	NAI GAMMA	BE-7	6	1.49E+03	5.48E+03 (6 /6) (2.80E+03 - 8.60E+03)			(. . - (. / .))	28	29	30
						30	6.90E+03(2 /2) (5.20E+03 - 8.60E+03)				
PASTURE (PCI/KG(WET))	NAI GAMMA	CR-51	6	1.58E+03	< LLD	(0 /6)		(. . - (. / .))	28	29	30
						30	< LLD (0 /2)				
PASTURE (PCI/KG(WET))	NAI GAMMA	RA-226	6	2.58E+02	< LLD	(0 /6)		(. . - (. / .))	28	29	30
						30	< LLD (0 /2)				
PASTURE (PCI/KG(WET))	NAI GAMMA	I-131	6	6.58E+02	< LLD	(0 /6)		(. . - (. / .))	28	29	30
						30	< LLD (0 /2)				
PASTURE (PCI/KG(WET))	NAI GAMMA	HA-22	6	1.62E+02	< LLD	(0 /6)		(. . - (. / .))	28	29	30
						30	< LLD (0 /2)				
PASTURE (PCI/KG(WET))	NAI GAMMA	RU-106	6	1.23E+03	< LLD	(0 /6)		(. . - (. / .))	28	29	30
						30	< LLD (0 /2)				

TABLE 19 (Continued)

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SAMPLE TYPE	ANALYSIS	ISOTOPE	NUMBER OF ANALYSES PERFORMED	LLD	INDICATOR-MEAN(N/TOTAL) RANGE		BACKGROUND-MEAN(N/TOTAL) RANGE		STATIONS USED FOR INDICATOR MEAN				
					STATION	STATION-MEAN(N/TOTAL) RANGE							
PASTURE (PCI/KG(WET))	NAI GAMMA	I-133	6	1.92E+02	< LLD	(0 / 6)		(. . - . / .)	28	29	30		
							30	< LLD (0 / 2)					
PASTURE (PCI/KG(WET))	NAI GAMMA	CS-137	6	1.60E+02	< LLD	(0 / 6)		(. . - . / .)	28	29	30		
							30	< LLD (0 / 2)					
PASTURE (PCI/KG(WET))	STRONTIUM-89		6	2.29E+01	< LLD	(0 / 6)		(. . - . / .)	28	29	30		
							30	< LLD (0 / 2)					
PASTURE (PCI/KG(WET))	STRONTIUM-90		6	2.24E+01	2.24E+02 (6 / 6) (9.79E+01 - 4.61E+02)			(. . - . / .)	28	29	30		
							30	2.91E+02(2 / 2) (1.21E+02 - 4.61E+02)					
SEDIMENT (PCI/KG(DRY))	GROSS ALPHA		14	2.65E+03	6.31E+03 (10 / 13) (3.37E+03 - 1.02E+04)			6.82E+03(1 / 1) (6.82E+03 - 6.82E+03)	23	24	25	26 27	
							33	8.72E+03(2 / 2) (7.50E+03 - 9.95E+03)					32 33
SEDIMENT (PCI/KG(DRY))	GROSS BETA		14	1.52E+03	6.83E+03 (13 / 13) (1.75E+03 - 1.47E+04)			1.09E+04(1 / 1) (1.09E+04 - 1.09E+04)	23	24	25	26 27	
							33	1.24E+04(2 / 2) (1.02E+04 - 1.47E+04)					32 33
SEDIMENT (PCI/KG(DRY))	GELI GAMMA	CE-144	44	1.35E+02	3.71E+02 (8 / 38) (1.70E+02 - 7.00E+02)			< LLD (0 / 6)	23	24	25	26 27	
							33	4.22E+02(6 / 7) (2.50E+02 - 7.00E+02)					32 33

TABLE 19 (Continued)

RADIOLOGICAL ENVIRONMENTAL MONITORING PROGRAM SUMMARY
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SAMPLE TYPE	ANALYSIS	ISOTOPE	NUMBER OF ANALYSES PERFORMED	LLD	INDICATOR-MEAN(N/TOTAL) RANGE		BACKGROUND-MEAN(N/TOTAL) RANGE		STATIONS USED FOR INDICATOR MEAN					
					STATION		STATION-MEAN(N/TOTAL) RANGE							
SEDIMENT (PCI/KG(DRY))	GELI GAMMA	AG-110M	44	2.25E+01	< LLD	(0 /38)		< LLD	(0 /6)	23	24	25	26	27
							33	< LLD (0 /7)	32	33				
SEDIMENT (PCI/KG(DRY))	GELI GAMMA	TE-129M	44	1.08E+03	< LLD	(0 /38)		< LLD	(0 /6)	23	24	25	26	27
							33	< LLD (0 /7)	32	33				
SEDIMENT (PCI/KG(DRY))	GELI GAMMA	MO-99	6	1.36E+03	< LLD	(0 /6)		(. . .)	(. . .)	24	25	26	27	32
							33	< LLD (0 /1)	33					
SEDIMENT (PCI/KG(DRY))	GELI GAMMA	ZRNB-95	43	1.99E+01	< LLD	(0 /38)		< LLD	(0 /5)	23	24	25	26	27
							33	< LLD (0 /7)	32	33				
SEDIMENT (PCI/KG(DRY))	GELI GAMMA	CS-134	44	1.96E+01	< LLD	(0 /38)		< LLD	(0 /6)	23	24	25	26	27
							33	< LLD (0 /7)	32	33				
SEDIMENT (PCI/KG(DRY))	GELI GAMMA	CO-58	44	2.29E+01	< LLD	(0 /38)		< LLD	(0 /6)	23	24	25	26	27
							33	< LLD (0 /7)	32	33				
SEDIMENT (PCI/KG(DRY))	GELI GAMMA	MN-54	44	2.01E+01	5.46E+01 (5 /38) (4.50E+01 - 8.40E+01)		< LLD	(0 /6)	23	24	25	26	27	
						33	5.70E+01(4 /7) (4.50E+01 - 8.40E+01)	32	33					

TABLE 19 (Continued)
 RADIOLOGICAL ENVIRONMENTAL MONITORING PROGRAM SUMMARY
 OYSTER CREEK NUCLEAR GENERATING STATION
 DECEMBER, 1981 THROUGH JUNE 5, 1982
 SEMI-ANNUAL 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
					STATION	STATION-MEAN(N/TOTAL) RANGE	
SEDIMENT (PCI/KG(DRY))	GELI GAMMA	TH-232	44	6.01E+01	3.27E+02 (37 /38) (3.10E-01 - 6.80E+02)	2.28E+02(5 /6) (4.10E-01 - 3.40E+02)	23 24 25 26 27 32 33
					33	4.64E+02(7 /7) (6.50E-01 - 6.80E+02)	
SEDIMENT (PCI/KG(DRY))	GELI GAMMA	FE-59	44	5.84E+01	< LLD (0 /38)	< LLD (0 /6)	23 24 25 26 27 32 33
					33	< LLD (0 /7)	
SEDIMENT (PCI/KG(DRY))	GELI GAMMA	CS-136	44	1.10E+02	< LLD (0 /38)	< LLD (0 /6)	23 24 25 26 27 32 33
					33	< LLD (0 /7)	
SEDIMENT (PCI/KG(DRY))	GELI GAMMA	ZN-65	44	4.83E+01	< LLD (0 /38)	< LLD (0 /6)	23 24 25 26 27 32 33
					33	< LLD (0 /7)	
SEDIMENT (PCI/KG(DRY))	GELI GAMMA	CO-60	44	2.42E+01	3.48E+02 (22 /38) (2.40E-02 - 1.60E+03)	< LLD (0 /6)	23 24 25 26 27 32 33
					33	6.47E+02(7 /7) (1.50E+00 - 1.10E+03)	
SEDIMENT (PCI/KG(DRY))	GELI GAMMA	K-40	44	2.30E+02	4.38E+03 (34 /38) (7.50E-01 - 1.50E+04)	5.70E+03(5 /6) (1.10E+01 - 1.10E+04)	23 24 25 26 27 32 33
					32	8.57E+03(6 /7) (1.30E+01 - 1.20E+04)	
SEDIMENT (PCI/KG(DRY))	GELI GAMMA	BALA-140	44	1.25E+02	< LLD (0 /38)	< LLD (0 /6)	23 24 25 26 27 32 33
					33	< LLD (0 /7)	

TABLE 19 (Continued)
 RADIOLOGICAL ENVIRONMENTAL MONITORING PROGRAM SUMMARY
 OYSTER CREEK NUCLEAR GENERATING STATION
 DECEMBER, 1981 THROUGH JUNE 5, 1982
 SEMI-ANNUAL 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				
					STATION		STATION-MEAN(N/TOTAL) RANGE						
SEDIMENT (PCI/KG(DRY))	GELI GAMMA	BE-7	44	2.15E+02	3.67E+02 (3 /38) (2.60E+02 - 5.50E+02)		< LLD (0 /6)		23 32	24 33	25	26	27
						33	5.50E+02(1 /7) (5.50E+02 - 5.50E+02)						
SEDIMENT (PCI/KG(DRY))	GELI GAMMA	ZR-95	1	5.80E+01	(. / .)		< LLD (0 /1)						
					(. / .)		(. / .)						
SEDIMENT (PCI/KG(DRY))	GELI GAMMA	NB-95	1	4.50E+01	(. / .)		< LLD (0 /1)						
					(. / .)		(. / .)						
SEDIMENT (PCI/KG(DRY))	GELI GAMMA	SB-125	44	4.91E+01	< LLD (0 /38)		< LLD (0 /6)		23 32	24 33	25	26	27
						33	< LLD (0 /7)						
SEDIMENT (PCI/KG(DRY))	GELI GAMMA	CE-141	44	4.93E+01	< LLD (0 /38)		< LLD (0 /6)		23 32	24 33	25	26	27
						33	< LLD (0 /7)						
SEDIMENT (PCI/KG(DRY))	GELI GAMMA	RU-103	44	2.87E+01	< LLD (0 /38)		< LLD (0 /6)		23 32	24 33	25	26	27
						33	< LLD (0 /7)						
SEDIMENT (PCI/KG(DRY))	GELI GAMMA	CR-51	44	2.93E+02	< LLD (0 /38)		< LLD (0 /6)		23 32	24 33	25	26	27
						33	< LLD (0 /7)						

TABLE 19 (Continued)

RADIOLOGICAL ENVIRONMENTAL MONITORING PROGRAM SUMMARY
OYSTER CREEK NUCLEAR GENERATING STATION
DECEMBER, 1981 THROUGH JUNE 5, 1982
SEMI-ANNUAL 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				
					STATION	STATION-MEAN(N/TOTAL) RANGE							
SEDIMENT (PCI/KG(DRY))	GELI GAMMA	RA-226	44	4.13E+01	2.87E+02 (38 /38) (2.90E-01 - 5.60E+02)		1.80E+02(5 /6) (3.10E-01 - 2.90E+02)	23 32	24 33	25	26	27	
					33	3.41E+02(7 /7) (3.80E-01 - 4.70E+02)							
SEDIMENT (PCI/KG(DRY))	GELI GAMMA	I-131	44	3.61E+02	< LLD (0 /38)		< LLD (0 /6)	23 32	24 33	25	26	27	
					33	< LLD (0 /7)							
SEDIMENT (PCI/KG(DRY))	GELI GAMMA	NP-239	2	2.65E+03	< LLD (0 /2)		(. / .)	24	25				
					25	< LLD (0 /1)							
SEDIMENT (PCI/KG(DRY))	GELI GAMMA	RU-106	44	1.65E+02	< LLD (0 /38)		< LLD (0 /6)	23 32	24 33	25	26	27	
					33	< LLD (0 /7)							
SEDIMENT (PCI/KG(DRY))	GELI GAMMA	CO-57	44	1.38E+01	< LLD (0 /38)		< LLD (0 /6)	23 32	24 33	25	26	27	
					33	< LLD (0 /7)							
SEDIMENT (PCI/KG(DRY))	GELI GAMMA	CS-137	44	2.03E+01	1.15E+02 (28 /38) (5.00E-02 - 3.10E+02)		2.87E+01(3 /6) (8.10E-02 - 6.90E+01)	23 32	24 33	25	26	27	
					27	1.80E+02(2 /2) (1.20E+02 - 2.40E+02)							
SEDIMENT (PCI/KG(DRY))	STRONTIUM-89		14	2.29E+01	2.44E+01 (3 /13) (7.36E+00 - 4.38E+01)		< LLD (0 /1)	23 32	24 33	25	26	27	
					24	4.38E+01(1 /2) (4.38E+01 - 4.38E+01)							

TABLE 19 (Continued)

RADIOLOGICAL ENVIRONMENTAL MONITORING PROGRAM SUMMARY
 OYSTER CREEK NUCLEAR GENERATING STATION
 DECEMBER, 1981 THROUGH JUNE 5, 1982
 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
SEDIMENT (PCI/KG(DRY))	STRONTIUM-90		14	2.75E+01	1.18E+02 (4 /13) (5.19E+00 - 2.65E+02)	27	< LLD (0 /1)	2.65E+02(1 /2) (2.65E+02 - 2.65E+02)	23 24 25 26 27 32 33

TABLE 20

RADIOLOGICAL ENVIRONMENTAL MONITORING PROGRAM SUMMARY
OYSTER CREEK NUCLEAR GENERATING STATION
DECEMBER, 1981 THROUGH FEBRUARY, 1982
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
VEGETATION (PCI/KG(WET))	GROSS BETA		15	2.32E+01	2.44E+03 (15 /15) (1.89E+03 - 3.12E+03)	(. - .)	1 2 3 4 5
AIR PARTICULATE (PCI/M3)	GROSS ALPHA		24	4.47E-04	1.88E-03 (15 /15) (9.07E-04 - 3.39E-03)	1.69E-03(9 /9) (9.13E-04 - 2.89E-03)	1 2 3 4 5
AIR PARTICULATE (PCI/M3)	GROSS BETA		48	4.43E-03	2.43E-02 (30 /30) (1.47E-02 - 5.49E-02)	1.86E-02(18 /18) (1.08E-02 - 3.24E-02)	1 2 3 4 5
AIR PARTICULATE (PCI/M3)	GELI GAMMA	CE-144	48	5.24E-02	< LLD (0 /30)	< LLD (0 /18)	1 2 3 4 5
AIR PARTICULATE (PCI/M3)	GELI GAMMA	AG-110M	48	8.78E-03	< LLD (0 /30)	< LLD (0 /18)	1 2 3 4 5
AIR PARTICULATE (PCI/M3)	GELI GAMMA	TE-129M	48	4.03E-01	< LLD (0 /30)	< LLD (0 /18)	1 2 3 4 5
AIR PARTICULATE (PCI/M3)	GELI GAMMA	MO-99	40	6.23E-01	< LLD (0 /25)	< LLD (0 /15)	1 2 3 4 5
AIR PARTICULATE (PCI/M3)	GELI GAMMA	ZRNB-95	48	8.57E-03	< LLD (0 /30)	< LLD (0 /18)	1 2 3 4 5
AIR PARTICULATE (PCI/M3)	GELI GAMMA	CS-134	48	8.17E-03	< LLD (0 /30)	< LLD (0 /18)	1 2 3 4 5
AIR PARTICULATE (PCI/M3)	GELI GAMMA	CO-58	48	9.95E-03	< LLD (0 /30)	< LLD (0 /18)	1 2 3 4 5
AIR PARTICULATE (PCI/M3)	GELI GAMMA	MN-54	48	9.01E-03	< LLD (0 /30)	< LLD (0 /18)	1 2 3 4 5
AIR PARTICULATE (PCI/M3)	GELI GAMMA	TH-232	48	2.98E-02	< LLD (0 /30)	< LLD (0 /18)	1 2 3 4 5

TABLE 20 (Continued)

RADIOLOGICAL ENVIRONMENTAL MONITORING PROGRAM SUMMARY
OYSTER CREEK NUCLEAR GENERATING STATION
DECEMBER, 1981 THROUGH FEBRUARY, 1982
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	FE-59	48	2.18E-02	< LLD	(0 /30)	< LLD	(0 /18)	1	2	3	4	5
AIR PARTICULATE (PCI/M3)	GELI GAMMA	CS-136	48	2.38E-02	< LLD	(0 /30)	< LLD	(0 /18)	1	2	3	4	5
AIR PARTICULATE (PCI/M3)	GELI GAMMA	ZN-65	48	2.07E-02	< LLD	(0 /30)	< LLD	(0 /18)	1	2	3	4	5
AIR PARTICULATE (PCI/M3)	GELI GAMMA	CO-60	48	1.15E-02	< LLD	(0 /30)	< LLD	(0 /18)	1	2	3	4	5
AIR PARTICULATE (PCI/M3)	GELI GAMMA	K-40	48	1.51E-01	< LLD	(0 /30)	< LLD	(0 /18)	1	2	3	4	5
AIR PARTICULATE (PCI/M3)	GELI GAMMA	BALA-140	48	2.85E-02	< LLD	(0 /30)	< LLD	(0 /18)	1	2	3	4	5
AIR PARTICULATE (PCI/M3)	GELI GAMMA	BE-7	48	1.03E-01	1.29E-01 (7 /30) (8.50E-02 - 2.00E-01)		1.35E-01(2 /18) (1.00E-01 - 1.70E-01)		1	2	3	4	5
AIR PARTICULATE (PCI/M3)	GELI GAMMA	SB-125	48	2.42E-02	< LLD	(0 /30)	< LLD	(0 /18)	1	2	3	4	5
AIR PARTICULATE (PCI/M3)	GELI GAMMA	CE-141	48	1.77E-02	< LLD	(0 /30)	< LLD	(0 /18)	1	2	3	4	5
AIR PARTICULATE (PCI/M3)	GELI GAMMA	RU-103	48	1.16E-02	< LLD	(0 /30)	< LLD	(0 /18)	1	2	3	4	5
AIR PARTICULATE (PCI/M3)	GELI GAMMA	CR-51	48	1.08E-01	< LLD	(0 /30)	< LLD	(0 /18)	1	2	3	4	5
AIR PARTICULATE (PCI/M3)	GELI GAMMA	RA-226	48	1.81E-02	< LLD	(0 /30)	< LLD	(0 /18)	1	2	3	4	5

TABLE 20 (Continued)

RADIOLOGICAL ENVIRONMENTAL MONITORING PROGRAM SUMMARY
OYSTER CREEK NUCLEAR GENERATING STATION
DECEMBER, 1981 THROUGH FEBRUARY, 1982
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	I-131	48	4.76E-02	< LLD (0 /30)	< LLD (0 /18)	1 2 3 4 5
AIR PARTICULATE (PCI/M3)	GELI GAMMA	NP-239	22	1.51E+00	< LLD (0 /15)	< LLD (0 /7)	1 2 3 4 5
AIR PARTICULATE (PCI/M3)	GELI GAMMA	RU-106	48	7.77E-02	< LLD (0 /30)	< LLD (0 /18)	1 2 3 4 5
AIR PARTICULATE (PCI/M3)	GELI GAMMA	CO-57	48	6.34E-03	< LLD (0 /30)	< LLD (0 /18)	1 2 3 4 5
AIR PARTICULATE (PCI/M3)	GELI GAMMA	CS-137	48	8.87E-03	< LLD (0 /30)	< LLD (0 /18)	1 2 3 4 5
PRECIPITATION (PCI/L)	GROSS BETA-SS		16	1.68E+00	1.89E+00 (1 /10) (1.89E+00 - 1.89E+00)	2.37E+00(1 /6) (2.37E+00 - 2.37E+00)	1 2 3 4 5
PRECIPITATION (PCI/L)	GROSS BETA-DS		16	1.70E+00	5.47E+00 (9 /10) (2.70E+00 - 1.04E+01)	6.87E+00(6 /6) (2.78E+00 - 1.19E+01)	1 2 3 4 5
PRECIPITATION (PCI/L)	GELI GAMMA	CE-144	8	7.79E+01	< LLD (0 /5)	< LLD (0 /3)	1 2 3 4 5
PRECIPITATION (PCI/L)	GELI GAMMA	AG-110M	8	9.44E+00	< LLD (0 /5)	< LLD (0 /3)	1 2 3 4 5
PRECIPITATION (PCI/L)	GELI GAMMA	TE-129M	8	4.01E+02	< LLD (0 /5)	< LLD (0 /3)	1 2 3 4 5
PRECIPITATION (PCI/L)	GELI GAMMA	MO-99	8	3.44E+02	< LLD (0 /5)	< LLD (0 /3)	1 2 3 4 5
PRECIPITATION (PCI/L)	GELI GAMMA	ZRNB-95	8	9.07E+00	< LLD (0 /5)	< LLD (0 /3)	1 2 3 4 5

TABLE 20 (Continued)

RADIOLOGICAL ENVIRONMENTAL MONITORING PROGRAM SUMMARY
OYSTER CREEK NUCLEAR GENERATING STATION
DECEMBER, 1981 THROUGH FEBRUARY, 1982
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				
PRECIPITATION (PCI/L)	GELI GAMMA	CS-134	8	9.12E+00	< LLD	(0 /5)	< LLD	(0 /3)	1	2	3	4	5
PRECIPITATION (PCI/L)	GELI GAMMA	CO-58	8	1.01E+01	< LLD	(0 /5)	< LLD	(0 /3)	1	2	3	4	5
PRECIPITATION (PCI/L)	GELI GAMMA	MN-54	8	9.21E+00	< LLD	(0 /5)	< LLD	(0 /3)	1	2	3	4	5
PRECIPITATION (PCI/L)	GELI GAMMA	TH-232	8	3.30E+01	< LLD	(0 /5)	< LLD	(0 /3)	1	2	3	4	5
PRECIPITATION (PCI/L)	GELI GAMMA	FE-59	8	1.90E+01	< LLD	(0 /5)	< LLD	(0 /3)	1	2	3	4	5
PRECIPITATION (PCI/L)	GELI GAMMA	CS-136	8	1.86E+01	< LLD	(0 /5)	< LLD	(0 /3)	1	2	3	4	5
PRECIPITATION (PCI/L)	GELI GAMMA	ZN-65	8	1.89E+01	< LLD	(0 /5)	< LLD	(0 /3)	1	2	3	4	5
PRECIPITATION (PCI/L)	GELI GAMMA	CO-60	8	9.17E+00	< LLD	(0 /5)	< LLD	(0 /3)	1	2	3	4	5
PRECIPITATION (PCI/L)	GELI GAMMA	K-40	8	1.50E+02	< LLD	(0 /5)	< LLD	(0 /3)	1	2	3	4	5
PRECIPITATION (PCI/L)	GELI GAMMA	BALA-140	8	1.84E+01	< LLD	(0 /5)	< LLD	(0 /3)	1	2	3	4	5
PRECIPITATION (PCI/L)	GELI GAMMA	BE-7	8	9.60E+01	< LLD	(0 /5)	< LLD	(0 /3)	1	2	3	4	5
PRECIPITATION (PCI/L)	GELI GAMMA	SB-125	8	2.80E+01	< LLD	(0 /5)	< LLD	(0 /3)	1	2	3	4	5

TABLE 20 (Continued)
 RADIOLOGICAL ENVIRONMENTAL MONITORING PROGRAM SUMMARY
 OYSTER CREEK NUCLEAR GENERATING STATION
 DECEMBER, 1981 THROUGH FEBRUARY, 1982
 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
PRECIPITATION (PCI/L)	GELI GAMMA	CE-141	8	2.25E+01	< LLD (0 /5)	< LLD (0 /3)	1 2 3 4 5
PRECIPITATION (PCI/L)	GELI GAMMA	RU-103	8	1.21E+01	< LLD (0 /5)	< LLD (0 /3)	1 2 3 4 5
PRECIPITATION (PCI/L)	GELI GAMMA	CR-51	8	1.10E+02	< LLD (0 /5)	< LLD (0 /3)	1 2 3 4 5
PRECIPITATION (PCI/L)	GELI GAMMA	RA-226	8	1.92E+01	3.40E+01 (1 /5) (3.40E+01 - 3.40E+01)	< LLD (0 /3)	1 2 3 4 5
PRECIPITATION (PCI/L)	GELI GAMMA	I-131	8	3.26E+01	< LLD (0 /5)	< LLD (0 /3)	1 2 3 4 5
PRECIPITATION (PCI/L)	GELI GAMMA	HP-239	8	2.76E+03	< LLD (0 /5)	< LLD (0 /3)	1 2 3 4 5
PRECIPITATION (PCI/L)	GELI GAMMA	RU-106	8	8.86E+01	< LLD (0 /5)	< LLD (0 /3)	1 2 3 4 5
PRECIPITATION (PCI/L)	GELI GAMMA	CO-57	8	9.94E+00	< LLD (0 /5)	< LLD (0 /3)	1 2 3 4 5
PRECIPITATION (PCI/L)	GELI GAMMA	CS-137	8	9.59E+00	< LLD (0 /5)	< LLD (0 /3)	1 2 3 4 5
PRECIPITATION (PCI/L)	TRITIUM		16	1.83E+02	< LLD (0 /10)	< LLD (0 /6)	1 2 3 4 5
PRECIPITATION (PCI/L)	STRONTIUM-89		7	1.85E+00	1.73E+00 (1 /5) (1.73E+00 - 1.73E+00)	9.22E-01(1 /2) (9.22E-01 - 9.22E-01)	1 2 3 4 5
PRECIPITATION (PCI/L)	STRONTIUM-90		7	2.61E+00	1.69E+00 (1 /5) (1.69E+00 - 1.69E+00)	< LLD (0 /2)	1 2 3 4 5

TABLE 20 (Continued)

RADIOLOGICAL ENVIRONMENTAL MONITORING PROGRAM SUMMARY
OYSTER CREEK NUCLEAR GENERATING STATION
DECEMBER, 1981 THROUGH FEBRUARY, 1982
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 IODINE (PCI/M3)	IODINE-131		48	1.81E-02	< LLD (0 /30)	< LLD (0 /18)	1	2	3	4	5
SURFACE WATER (PCI/L)	GROSS ALPHA-SS		22	3.43E-01	4.90E-01 (9 /20) (2.15E-01 - 8.61E-01)	< LLD (0 /2)	23 32	24 33	25	26	27
SURFACE WATER (PCI/L)	GROSS BETA-SS		22	4.02E-01	6.77E-01 (9 /20) (3.90E-01 - 1.30E+00)	9.00E-01(2 /2) (7.30E-01 - 1.07E+00)	23 32	24 33	25	26	27
SURFACE WATER (PCI/L)	GROSS BETA-DS		22	8.60E+00	1.41E+02 (18 /20) (3.12E+00 - 2.26E+02)	1.93E+02(2 /2) (1.65E+02 - 2.22E+02)	23 32	24 33	25	26	27
SURFACE WATER (PCI/L)	POTASSIUM-40		6	8.60E-01	1.51E+02 (4 /6) (1.45E+02 - 1.70E+02)	(. / .)	24 33	25	26	27	32
SURFACE WATER (MG/L)	CALCIUM BY AA		6	8.00E-02	6.47E+01 (6 /6) (4.00E+00 - 1.05E+02)	(. / .)	24 33	25	26	27	32
SURFACE WATER (PCI/L)	TRITIUM		22	1.91E+02	2.81E+02 (1 /20) (2.81E+02 - 2.81E+02)	< LLD (0 /2)	23 32	24 33	25	26	27
SURFACE WATER (PCI/L)	IODINE-131		6	9.85E-02	< LLD (0 /6)	(. / .)	24 33	25	26	27	32
SURFACE WATER (PCI/L)	NAI GAMMA	CE-144	22	6.34E+01	< LLD (0 /20)	< LLD (0 /2)	23 32	24 33	25	26	27
SURFACE WATER (PCI/L)	NAI GAMMA	AG-110M	22	6.61E+00	< LLD (0 /20)	< LLD (0 /2)	23 32	24 33	25	26	27
SURFACE WATER (PCI/L)	NAI GAMMA	TE-129M	22	1.30E+02	< LLD (0 /20)	< LLD (0 /2)	23 32	24 33	25	26	27
SURFACE WATER (PCI/L)	NAI GAMMA	MO-99	22	1.55E+03	< LLD (0 /20)	< LLD (0 /2)	23 32	24 33	25	26	27

TABLE 20 (Continued)
 RADIOLOGICAL ENVIRONMENTAL MONITORING PROGRAM SUMMARY
 OYSTER CREEK NUCLEAR GENERATING STATION
 DECEMBER, 1981 THROUGH FEBRUARY, 1982
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SAMPLE TYPE	ANALYSIS	ISOTOPE	NUMBER OF ANALYSES PERFORMED	LLD	INDICATOR-MEAN(N/TOTAL) RANGE	BACKGROUND-MEAN(N/TOTAL) RANGE	STATIONS USED FOR INDICATOR MEAN				
SURFACE WATER (PCI/L)	NAI GAMMA	ZRNB-95	22	6.20E+00	< LLD (0 /20)	< LLD (0 /2)	23 32	24 33	25	26	27
SURFACE WATER (PCI/L)	NAI GAMMA	CS-134	22	6.37E+00	< LLD (0 /20)	< LLD (0 /2)	23 32	24 33	25	26	27
SURFACE WATER (PCI/L)	NAI GAMMA	CO-58	22	6.96E+00	< LLD (0 /20)	< LLD (0 /2)	23 32	24 33	25	26	27
SURFACE WATER (PCI/L)	NAI GAMMA	MN-54	22	6.40E+00	< LLD (0 /20)	< LLD (0 /2)	23 32	24 33	25	26	27
SURFACE WATER (PCI/L)	NAI GAMMA	TH-232	22	2.42E+01	< LLD (0 /20)	< LLD (0 /2)	23 32	24 33	25	26	27
SURFACE WATER (PCI/L)	NAI GAMMA	FE-59	22	1.49E+01	< LLD (0 /20)	< LLD (0 /2)	23 32	24 33	25	26	27
SURFACE WATER (PCI/L)	NAI GAMMA	CS-136	22	1.68E+01	< LLD (0 /20)	< LLD (0 /2)	23 32	24 33	25	26	27
SURFACE WATER (PCI/L)	NAI GAMMA	TE-132	22	1.49E+02	< LLD (0 /20)	< LLD (0 /2)	23 32	24 33	25	26	27
SURFACE WATER (PCI/L)	NAI GAMMA	ZN-65	22	1.42E+01	< LLD (0 /20)	< LLD (0 /2)	23 32	24 33	25	26	27
SURFACE WATER (PCI/L)	NAI GAMMA	CO-60	22	6.80E+00	< LLD (0 /20)	< LLD (0 /2)	23 32	24 33	25	26	27
SURFACE WATER (PCI/L)	NAI GAMMA	K-40	22	9.07E+01	2.38E+02 (13 /20) (1.30E+02 - 3.20E+02)	3.20E+02(2 /2) (2.60E+02 - 3.80E+02)	23 32	24 33	25	26	27
SURFACE WATER (PCI/L)	NAI GAMMA	BALA-140	22	1.37E+01	< LLD (0 /20)	< LLD (0 /2)	23 32	24 33	25	26	27

TABLE 20 (Continued)
 RADIOLOGICAL ENVIRONMENTAL MONITORING PROGRAM SUMMARY
 OYSTER CREEK NUCLEAR GENERATING STATION
 DECEMBER, 1981 THROUGH FEBRUARY, 1982
 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
SURFACE WATER (PCI/L)	NAI GAMMA	BE-7	22	7.09E+01	< LLD (0 /20)	< LLD (0 /2)	23 24 25 26 27 32 33
SURFACE WATER (PCI/L)	NAI GAMMA	CR-51	22	8.68E+01	< LLD (0 /20)	< LLD (0 /2)	23 24 25 26 27 32 33
SURFACE WATER (PCI/L)	NAI GAMMA	RA-226	22	1.21E+01	< LLD (0 /20)	< LLD (0 /2)	23 24 25 26 27 32 33
SURFACE WATER (PCI/L)	NAI GAMMA	I-131	22	2.52E+01	< LLD (0 /20)	< LLD (0 /2)	23 24 25 26 27 32 33
SURFACE WATER (PCI/L)	NAI GAMMA	NA-22	22	6.72E+00	< LLD (0 /20)	< LLD (0 /2)	23 24 25 26 27 32 33
SURFACE WATER (PCI/L)	NAI GAMMA	RU-106	22	6.18E+01	< LLD (0 /20)	< LLD (0 /2)	23 24 25 26 27 32 33
SURFACE WATER (PCI/L)	NAI GAMMA	I-133	22	7.37E+00	< LLD (0 /20)	< LLD (0 /2)	23 24 25 26 27 32 33
SURFACE WATER (PCI/L)	NAI GAMMA	CS-137	22	7.07E+00	< LLD (0 /20)	< LLD (0 /2)	23 24 25 26 27 32 33
SURFACE WATER (PCI/L)	RADIUM-226		22	6.38E-02	3.15E-01 (19 /20) (1.07E-01 - 9.61E-01)	1.02E-01 (2 /2) (9.03E-02 - 1.14E-01)	23 24 25 26 27 32 33
SURFACE WATER (PCI/L)	RADIUM-228		22	7.21E-01	8.56E-01 (2 /20) (6.93E-01 - 1.02E+00)	< LLD (0 /2)	23 24 25 26 27 32 33
SURFACE WATER (PCI/L)	STRONTIUM-89		6	1.43E+00	6.35E-01 (1 /6) (6.35E-01 - 6.35E-01)	(. . .) (. . .)	24 25 26 27 32 33
SURFACE WATER (PCI/L)	STRONTIUM-90		22	7.52E-01	7.87E-01 (4 /20) (2.47E-01 - 1.60E+00)	< LLD (0 /2)	23 24 25 26 27 32 33

TABLE 20 (Continued)
 RADIOLOGICAL ENVIRONMENTAL MONITORING PROGRAM SUMMARY
 OYSTER CREEK NUCLEAR GENERATING STATION
 DECEMBER, 1981 THROUGH FEBRUARY, 1982
 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				
SURFACE WATER (PCI/L)	TOTAL URANIUM		22	1.45E-01	1.40E+00 (16 /20) (1.40E-01 - 2.12E+00)	1.79E+00(2 /2) (1.69E+00 - 1.90E+00)	23	24	25	26	27
							32	33			
SURFACE WATER (PCI/L)	GROSS ALPHA-DS		22	6.32E-01	1.77E+00 (10 /20) (5.30E-01 - 2.42E+00)	1.91E+00(1 /2) (1.91E+00 - 1.91E+00)	23	24	25	26	27
							32	33			
WELL WATER (PCI/L)	GROSS ALPHA-SS		18	2.01E-01	< LLD (0 /18)	(. . - . / .)	1	18	19	20	21
							22				
WELL WATER (PCI/L)	GROSS ALPHA-DS		18	3.01E+00	8.80E+00 (4 /18) (3.61E+00 - 1.91E+01)	(. . - . / .)	1	18	19	20	21
							22				
WELL WATER (PCI/L)	GROSS BETA-SS		18	6.72E-01	2.00E+00 (6 /18) (8.39E-01 - 3.30E+00)	(. . - . / .)	1	18	19	20	21
							22				
WELL WATER (PCI/L)	GROSS BETA-DS		18	7.03E-01	3.18E+00 (12 /18) (1.67E+00 - 6.01E+00)	(. . - . / .)	1	18	19	20	21
							22				
WELL WATER (PCI/L)	POTASSIUM-40		6	8.60E-01	2.10E+00 (5 /6) (1.45E+00 - 3.41E+00)	(. . - . / .)	1	18	19	20	21
							22				
WELL WATER (PCI/L)	GELI GAMMA	CE-144	6	7.72E+01	< LLD (0 /6)	(. . - . / .)	1	18	19	20	21
							22				
WELL WATER (PCI/L)	GELI GAMMA	AG-110M	6	9.45E+00	< LLD (0 /6)	(. . - . / .)	1	18	19	20	21
							22				
WELL WATER (PCI/L)	GELI GAMMA	TE-129M	6	4.02E+02	< LLD (0 /6)	(. . - . / .)	1	18	19	20	21
							22				
WELL WATER (PCI/L)	GELI GAMMA	MO-99	6	5.18E+02	< LLD (0 /6)	(. . - . / .)	1	18	19	20	21
							22				
WELL WATER (PCI/L)	GELI GAMMA	ZRNB-95	6	9.00E+00	< LLD (0 /6)	(. . - . / .)	1	18	19	20	21
							22				

TABLE 20 (Continued)
 RADIOLOGICAL ENVIRONMENTAL MONITORING PROGRAM SUMMARY
 OYSTER CREEK NUCLEAR GENERATING STATION
 DECEMBER, 1981 THROUGH FEBRUARY, 1982
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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)	GELI GAMMA	CS-134	6	9.13E+00	< LLD (0 / 6)	(. . - . / .)	1 18 19 20 21 22
WELL WATER (PCI/L)	GELI GAMMA	CO-58	6	1.00E+01	< LLD (0 / 6)	(. . - . / .)	1 18 19 20 21 22
WELL WATER (PCI/L)	GELI GAMMA	MN-54	6	9.15E+00	< LLD (0 / 6)	(. . - . / .)	1 18 19 20 21 22
WELL WATER (PCI/L)	GELI GAMMA	TH-232	6	3.32E+01	< LLD (0 / 6)	(. . - . / .)	1 18 19 20 21 22
WELL WATER (PCI/L)	GELI GAMMA	FE-59	6	1.95E+01	< LLD (0 / 6)	(. . - . / .)	1 18 19 20 21 22
WELL WATER (PCI/L)	GELI GAMMA	CS-136	6	1.95E+01	< LLD (0 / 6)	(. . - . / .)	1 18 19 20 21 22
WELL WATER (PCI/L)	GELI GAMMA	ZN-65	6	1.85E+01	< LLD (0 / 6)	(. . - . / .)	1 18 19 20 21 22
WELL WATER (PCI/L)	GELI GAMMA	CO-60	6	9.23E+00	< LLD (0 / 6)	(. . - . / .)	1 18 19 20 21 22
WELL WATER (PCI/L)	GELI GAMMA	K-40	6	1.48E+02	< LLD (0 / 6)	(. . - . / .)	1 18 19 20 21 22
WELL WATER (PCI/L)	GELI GAMMA	BALA-140	6	1.93E+01	< LLD (0 / 6)	(. . - . / .)	1 18 19 20 21 22
WELL WATER (PCI/L)	GELI GAMMA	BE-7	6	9.50E+01	< LLD (0 / 6)	(. . - . / .)	1 18 19 20 21 22
WELL WATER (PCI/L)	GELI GAMMA	SB-125	6	2.75E+01	< LLD (0 / 6)	(. . - . / .)	1 18 19 20 21 22

TABLE 20 (Continued)
 RADIOLOGICAL ENVIRONMENTAL MONITORING PROGRAM SUMMARY
 OYSTER CREEK NUCLEAR GENERATING STATION
 DECEMBER, 1981 THROUGH FEBRUARY, 1982
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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)	GELI GAMMA	CE-141	6	2.30E+01	< LLD (0 / 6)	(. . - . / .)	1 18 19 20 21 22
WELL WATER (PCI/L)	GELI GAMMA	RU-103	6	1.20E+01	< LLD (0 / 6)	(. . - . / .)	1 18 19 20 21 22
WELL WATER (PCI/L)	GELI GAMMA	CR-51	6	1.13E+02	< LLD (0 / 6)	(. . - . / .)	1 18 19 20 21 22
WELL WATER (PCI/L)	GELI GAMMA	RA-226	6	1.92E+01	< LLD (0 / 6)	(. . - . / .)	1 18 19 20 21 22
WELL WATER (PCI/L)	GELI GAMMA	I-131	6	3.57E+01	< LLD (0 / 6)	(. . - . / .)	1 18 19 20 21 22
WELL WATER (PCI/L)	GELI GAMMA	NP-239	4	1.70E+03	< LLD (0 / 4)	(. . - . / .)	1 18 19 20
WELL WATER (PCI/L)	GELI GAMMA	RU-106	6	8.87E+01	< LLD (0 / 6)	(. . - . / .)	1 18 19 20 21 22
WELL WATER (PCI/L)	GELI GAMMA	CO-57	6	1.01E+01	< LLD (0 / 6)	(. . - . / .)	1 18 19 20 21 22
WELL WATER (PCI/L)	GELI GAMMA	CS-137	6	9.57E+00	< LLD (0 / 6)	(. . - . / .)	1 18 19 20 21 22
WELL WATER (PCI/L)	TRITIUM		6	1.96E+02	< LLD (0 / 6)	(. . - . / .)	1 18 19 20 21 22
WELL WATER (PCI/L)	RADIUM-226		6	5.94E-02	6.18E-01 (6 / 6) (1.59E-01 - 1.25E+00)	(. . - . / .)	1 18 19 20 21 22
WELL WATER (PCI/L)	RADIUM-228		6	5.30E-01	8.14E-01 (1 / 6) (8.14E-01 - 8.14E-01)	(. . - . / .)	1 18 19 20 21 22

TABLE 20 (Continued)

RADIOLOGICAL ENVIRONMENTAL MONITORING PROGRAM SUMMARY
OYSTER CREEK NUCLEAR GENERATING STATION
DECEMBER, 1981 THROUGH FEBRUARY, 1982
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
CLAMS (PCI/KG(WET))	GROSS ALPHA		10	7.80E+01	1.21E+02 (6 / 8) (6.97E+01 - 1.71E+02)	7.01E+01(1 / 2) (7.01E+01 - 7.01E+01)	23 24 25
CLAMS (PCI/KG(WET))	GROSS BETA		10	2.82E+01	1.24E+03 (8 / 8) (8.99E+02 - 2.01E+03)	1.29E+03(2 / 2) (1.28E+03 - 1.31E+03)	23 24 25
CLAMS (MG/GM(WET))	CALCIUM BY AA		2	7.46E-01	7.03E+01 (2 / 2) (6.12E+01 - 7.94E+01)	(. . - . / .)	24 25
CLAMS (PCI/KG(WET))	NAI GAMMA	CE-144	2	5.65E+01	< LLD (0 / 2)	(. . - . / .)	24 25
CLAMS (PCI/KG(WET))	NAI GAMMA	AG-110M	2	1.60E-02	< LLD (0 / 2)	(. . - . / .)	24 25
CLAMS (PCI/KG(WET))	NAI GAMMA	TE-129M	2	4.30E-01	< LLD (0 / 2)	(. . - . / .)	24 25
CLAMS (PCI/KG(WET))	NAI GAMMA	MO-99	2	5.25E+00	< LLD (0 / 2)	(. . - . / .)	24 25
CLAMS (PCI/KG(WET))	NAI GAMMA	ZRNB-95	2	1.50E-02	< LLD (0 / 2)	(. . - . / .)	24 25
CLAMS (PCI/KG(WET))	NAI GAMMA	CS-134	2	1.60E-02	< LLD (0 / 2)	(. . - . / .)	24 25
CLAMS (PCI/KG(WET))	NAI GAMMA	CO-58	2	1.70E-02	< LLD (0 / 2)	(. . - . / .)	24 25
CLAMS (PCI/KG(WET))	NAI GAMMA	MN-54	2	1.50E-02	< LLD (0 / 2)	(. . - . / .)	24 25
CLAMS (PCI/KG(WET))	NAI GAMMA	TH-232	2	6.20E-02	< LLD (0 / 2)	(. . - . / .)	24 25

TABLE 20 (Continued)
 RADIOLOGICAL ENVIRONMENTAL MONITORING PROGRAM SUMMARY
 OYSTER CREEK NUCLEAR GENERATING STATION
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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/KG(WET))	NAI GAMMA	FE-59	2	4.00E-02	< LLD (0 / 2)	(. . - . / .)	24 25
CLAMS (PCI/KG(WET))	NAI GAMMA	CS-136	2	3.60E-02	< LLD (0 / 2)	(. . - . / .)	24 25
CLAMS (PCI/KG(WET))	NAI GAMMA	TE-132	2	3.45E-01	< LLD (0 / 2)	(. . - . / .)	24 25
CLAMS (PCI/KG(WET))	NAI GAMMA	ZN-65	2	3.25E-02	< LLD (0 / 2)	(. . - . / .)	24 25
CLAMS (PCI/KG(WET))	NAI GAMMA	CO-60	2	1.60E-02	< LLD (0 / 2)	(. . - . / .)	24 25
CLAMS (PCI/KG(WET))	NAI GAMMA	K-40	2	3.10E-01	1.10E+00 (1 / 2) (1.10E+00 - 1.10E+00)	(. . - . / .)	24 25
CLAMS (PCI/KG(WET))	NAI GAMMA	BALA-140	2	3.70E-02	< LLD (0 / 2)	(. . - . / .)	24 25
CLAMS (PCI/KG(WET))	NAI GAMMA	BE-7	2	1.60E-01	< LLD (0 / 2)	(. . - . / .)	24 25
CLAMS (PCI/KG(WET))	NAI GAMMA	CR-51	2	1.70E-01	< LLD (0 / 2)	(. . - . / .)	24 25
CLAMS (PCI/KG(WET))	NAI GAMMA	RA-226	2	3.10E-02	< LLD (0 / 2)	(. . - . / .)	24 25
CLAMS (PCI/KG(WET))	NAI GAMMA	I-131	2	5.75E-02	< LLD (0 / 2)	(. . - . / .)	24 25
CLAMS (PCI/KG(WET))	NAI GAMMA	NA-22	2	1.60E-02	< LLD (0 / 2)	(. . - . / .)	24 25

TABLE 20 (Continued)
 RADIOLOGICAL ENVIRONMENTAL MONITORING PROGRAM SUMMARY
 OYSTER CREEK NUCLEAR GENERATING STATION
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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/KG(WET))	NAI GAMMA	RU-106	2	1.50E-01	< LLD (0 /2)	(. . - . / .)	24 25
CLAMS (PCI/KG(WET))	NAI GAMMA	I-133	2	1.60E-02	< LLD (0 /2)	(. . - . / .)	24 25
CLAMS (PCI/KG(WET))	NAI GAMMA	CS-137	2	1.60E-02	< LLD (0 /2)	(. . - . / .)	24 25
(CLAMS (PCI/KG(WET))	STRONTIUM-89		2	2.26E+01	< LLD (0 /2)	(. . - . / .)	24 25
CLAMS (PCI/KG(WET))	STRONTIUM-90		2	2.65E+01	< LLD (0 /2)	(. . - . / .)	24 25
(SOIL (PCI/KG(DRY))	GROSS BETA		15	1.48E+03	5.45E+03 (15 /15) (1.63E+03 - 1.28E+04)	(. . - . / .)	1 2 3 4 5
PASTURE (PCI/KG(WET))	GROSS BETA		3	3.63E+01	3.15E+03 (3 /3) (2.67E+03 - 3.75E+03)	(. . - . / .)	28 29 30
(PASTURE (MG/GM(WET))	CALCIUM BY AA		3	4.68E-01	5.98E+01 (3 /3) (4.12E+01 - 6.93E+01)	(. . - . / .)	28 29 30
PASTURE (PCI/KG(WET))	NAI GAMMA	CE-144	3	7.40E+02	< LLD (0 /3)	(. . - . / .)	28 29 30
(PASTURE (PCI/KG(WET))	NAI GAMMA	AG-110M	3	1.87E+02	< LLD (0 /3)	(. . - . / .)	28 29 30
(PASTURE (PCI/KG(WET))	NAI GAMMA	TE-129M	3	3.77E+03	< LLD (0 /3)	(. . - . / .)	28 29 30
PASTURE (PCI/KG(WET))	NAI GAMMA	MO-99	3	2.03E+04	< LLD (0 /3)	(. . - . / .)	28 29 30

TABLE 20 (Continued)
 RADIOLOGICAL ENVIRONMENTAL MONITORING PROGRAM SUMMARY
 OYSTER CREEK NUCLEAR GENERATING STATION
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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/KG(WET))	NAI GAMMA	ZRNB-95	3	1.83E+02	< LLD (0 / 3)	(. . - . / .)	28 29 30
PASTURE (PCI/KG(WET))	NAI GAMMA	CS-134	3	1.83E+02	< LLD (0 / 3)	(. . - . / .)	28 29 30
PASTURE (PCI/KG(WET))	NAI GAMMA	CO-58	3	2.00E+02	< LLD (0 / 3)	(. . - . / .)	28 29 30
PASTURE (PCI/KG(WET))	NAI GAMMA	MN-54	3	1.87E+02	< LLD (0 / 3)	(. . - . / .)	28 29 30
PASTURE (PCI/KG(WET))	NAI GAMMA	TH-232	3	6.73E+02	< LLD (0 / 3)	(. . - . / .)	28 29 30
PASTURE (PCI/KG(WET))	NAI GAMMA	FE-59	3	3.63E+02	< LLD (0 / 3)	(. . - . / .)	28 29 30
PASTURE (PCI/KG(WET))	NAI GAMMA	CS-136	3	4.37E+02	< LLD (0 / 3)	(. . - . / .)	28 29 30
PASTURE (PCI/KG(WET))	NAI GAMMA	TE-132	3	1.40E+03	< LLD (0 / 3)	(. . - . / .)	28 29 30
PASTURE (PCI/KG(WET))	NAI GAMMA	ZN-65	3	4.27E+02	< LLD (0 / 3)	(. . - . / .)	28 29 30
PASTURE (PCI/KG(WET))	NAI GAMMA	CO-60	3	1.83E+02	< LLD (0 / 3)	(. . - . / .)	28 29 30
PASTURE (PCI/KG(WET))	NAI GAMMA	K-40	3	2.41E+03	< LLD (0 / 3)	(. . - . / .)	28 29 30
PASTURE (PCI/KG(WET))	NAI GAMMA	BALA-140	3	3.33E+02	< LLD (0 / 3)	(. . - . / .)	28 29 30

TABLE 20 (Continued)
 RADIOLOGICAL ENVIRONMENTAL MONITORING PROGRAM SUMMARY
 OYSTER CREEK NUCLEAR GENERATING STATION
 DECEMBER, 1981 THROUGH FEBRUARY, 1982
 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/KG(WET))	NAI GAMMA	BE-7	3	1.48E+03	6.47E+03 (3 /3) (3.10E+03 - 8.60E+03)	(. - . / .)	28 29 30
PASTURE (PCI/KG(WET))	NAI GAMMA	CR-51	3	1.56E+03	< LLD (0 /3)	(. - . / .)	28 29 30
PASTURE (PCI/KG(WET))	NAI GAMMA	RA-226	3	3.07E+02	< LLD (0 /3)	(. - . / .)	28 29 30
PASTURE (PCI/KG(WET))	NAI GAMMA	I-131	3	4.50E+02	< LLD (0 /3)	(. - . / .)	28 29 30
PASTURE (PCI/KG(WET))	NAI GAMMA	NA-22	3	1.88E+02	< LLD (0 /3)	(. - . / .)	28 29 30
PASTURE (PCI/KG(WET))	NAI GAMMA	RU-106	3	1.33E+03	< LLD (0 /3)	(. - . / .)	28 29 30
PASTURE (PCI/KG(WET))	NAI GAMMA	I-133	3	2.38E+02	< LLD (0 /3)	(. - . / .)	28 29 30
PASTURE (PCI/KG(WET))	NAI GAMMA	CS-137	3	1.88E+02	< LLD (0 /3)	(. - . / .)	28 29 30
PASTURE (PCI/KG(WET))	STRONTIUM-89		3	2.66E+01	< LLD (0 /3)	(. - . / .)	28 29 30
PASTURE (PCI/KG(WET))	STRONTIUM-90		3	2.50E+01	2.50E+02 (3 /3) (9.79E+01 - 4.61E+02)	(. - . / .)	28 29 30
SEDIMENT (PCI/KG(DRY))	GROSS ALPHA		6	1.93E+03	5.60E+03 (5 /6) (3.37E+03 - 7.50E+03)	(. - . / .)	24 25 26 27 32 33
SEDIMENT (PCI/KG(DRY))	GROSS BETA		6	1.27E+03	5.98E+03 (6 /6) (1.75E+03 - 1.31E+04)	(. - . / .)	24 25 26 27 32 33

TABLE 20 (Continued)
 RADIOLOGICAL ENVIRONMENTAL MONITORING PROGRAM SUMMARY
 OYSTER CREEK NUCLEAR GENERATING STATION
 DECEMBER, 1981 THROUGH FEBRUARY, 1982
 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				
SEDIMENT (PCI/KG(DRY))	GELI GAMMA	CE-144	18	1.34E+02	4.50E+02 (2 /16) (2.60E+02 - 6.40E+02)	< LLD (0 /2)	23 32	24 33	25	26	27
SEDIMENT (PCI/KG(DRY))	GELI GAMMA	AG-110M	18	1.80E+01	< LLD (0 /16)	< LLD (0 /2)	23 32	24 33	25	26	27
SEDIMENT (PCI/KG(DRY))	GELI GAMMA	TE-129M	18	6.74E+02	< LLD (0 /16)	< LLD (0 /2)	23 32	24 33	25	26	27
SEDIMENT (PCI/KG(DRY))	GELI GAMMA	MO-99	6	1.36E+03	< LLD (0 /6)	(. . - . .)	24 33	25	26	27	32
SEDIMENT (PCI/KG(DRY))	GELI GAMMA	ZRNB-95	18	1.59E+01	< LLD (0 /16)	< LLD (0 /2)	23 32	24 33	25	26	27
SEDIMENT (PCI/KG(DRY))	GELI GAMMA	CS-134	18	1.60E+01	< LLD (0 /16)	< LLD (0 /2)	23 32	24 33	25	26	27
SEDIMENT (PCI/KG(DRY))	GELI GAMMA	CO-58	18	1.67E+01	< LLD (0 /16)	< LLD (0 /2)	23 32	24 33	25	26	27
SEDIMENT (PCI/KG(DRY))	GELI GAMMA	MN-54	18	1.58E+01	4.70E+01 (1 /16) (4.70E+01 - 4.70E+01)	< LLD (0 /2)	23 32	24 33	25	26	27
SEDIMENT (PCI/KG(DRY))	GELI GAMMA	TH-232	18	4.44E+01	2.27E+02 (15 /16) (3.10E-01 - 5.80E+02)	1.70E+02(2 /2) (4.10E-01 - 3.40E+02)	23 32	24 33	25	26	27
SEDIMENT (PCI/KG(DRY))	GELI GAMMA	FE-59	18	3.91E+01	< LLD (0 /16)	< LLD (0 /2)	23 32	24 33	25	26	27
SEDIMENT (PCI/KG(DRY))	GELI GAMMA	CS-136	18	5.74E+01	< LLD (0 /16)	< LLD (0 /2)	23 32	24 33	25	26	27
SEDIMENT (PCI/KG(DRY))	GELI GAMMA	ZN-65	18	3.72E+01	< LLD (0 /16)	< LLD (0 /2)	23 32	24 33	25	26	27

TABLE 20 (Continued)

RADIOLOGICAL ENVIRONMENTAL MONITORING PROGRAM SUMMARY
OYSTER CREEK NUCLEAR GENERATING STATION
DECEMBER, 1981 THROUGH FEBRUARY, 1982
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				
SEDIMENT (PCI/KG(DRY))	GELI GAMMA	CO-60	18	1.71E+01	1.89E+02 (10 /16) (2.40E-02 - 8.10E+02)	< LLD (0 /2)	23 32	24 33	25	26	27
SEDIMENT (PCI/KG(DRY))	GELI GAMMA	K-40	18	1.46E+02	2.77E+03 (15 /16) (7.50E-01 - 1.10E+04)	5.51E+03(2 /2) (1.10E+01 - 1.10E+04)	23 32	24 33	25	26	27
SEDIMENT (PCI/KG(DRY))	GELI GAMMA	BALA-140	18	8.71E+01	< LLD (0 /16)	< LLD (0 /2)	23 32	24 33	25	26	27
SEDIMENT (PCI/KG(DRY))	GELI GAMMA	BE-7	18	1.52E+02	< LLD (0 /16)	< LLD (0 /2)	23 32	24 33	25	26	27
SEDIMENT (PCI/KG(DRY))	GELI GAMMA	SB-125	18	3.87E+01	< LLD (0 /16)	< LLD (0 /2)	23 32	24 33	25	26	27
SEDIMENT (PCI/KG(DRY))	GELI GAMMA	CE-141	18	3.22E+01	< LLD (0 /16)	< LLD (0 /2)	23 32	24 33	25	26	27
SEDIMENT (PCI/KG(DRY))	GELI GAMMA	RU-103	18	1.98E+01	< LLD (0 /16)	< LLD (0 /2)	23 32	24 33	25	26	27
SEDIMENT (PCI/KG(DRY))	GELI GAMMA	CR-51	18	1.74E+02	< LLD (0 /16)	< LLD (0 /2)	23 32	24 33	25	26	27
SEDIMENT (PCI/KG(DRY))	GELI GAMMA	RA-226	18	3.17E+01	2.09E+02 (16 /16) (2.90E-01 - 4.80E+02)	1.45E+02(2 /2) (3.10E-01 - 2.90E+02)	23 32	24 33	25	26	27
SEDIMENT (PCI/KG(DRY))	GELI GAMMA	I-131	18	7.95E+01	< LLD (0 /16)	< LLD (0 /2)	23 32	24 33	25	26	27
SEDIMENT (PCI/KG(DRY))	GELI GAMMA	NP-239	2	2.65E+03	< LLD (0 /2)	(. . .) (. . .)	24	25			
SEDIMENT (PCI/KG(DRY))	GELI GAMMA	RU-106	18	1.27E+02	< LLD (0 /16)	< LLD (0 /2)	23 32	24 33	25	26	27

TABLE 20 (Continued)
 RADIOLOGICAL ENVIRONMENTAL MONITORING PROGRAM SUMMARY
 OYSTER CREEK NUCLEAR GENERATING STATION
 DECEMBER, 1981 THROUGH FEBRUARY, 1982
 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				
SEDIMENT (PCI/KG(DRY))	GELI GAMMA	CO-57	18	1.04E+01	< LLD (0 /16)	< LLD (0 /2)	23 32	24 33	25	26	27
SEDIMENT (PCI/KG(DRY))	GELI GAMMA	CS-137	18	1.56E+01	9.63E+01 (12 /16) (5.00E-02 - 2.10E+02)	3.45E+01(2 /2) (8.10E-02 - 6.90E+01)	23 32	24 33	25	26	27
SEDIMENT (PCI/KG(DRY))	STRONTIUM-89		6	3.30E+01	3.29E+01 (2 /6) (2.21E+01 - 4.38E+01)	(. . - . .)	24 33	25	26	27	32
SEDIMENT (PCI/KG(DRY))	STRONTIUM-90		6	4.49E+01	2.65E+02 (1 /6) (2.65E+02 - 2.65E+02)	(. . - . .)	24 33	25	26	27	32

TABLE 21
RADIOLOGICAL ENVIRONMENTAL MONITORING PROGRAM SUMMARY
OYSTER CREEK NUCLEAR GENERATING STATION
MARCH, 1982 THROUGH JUNE 5, 1982
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
VEGETATION (PCI/KG(WET))	GROSS BETA		20	3.19E+01	2.48E+03 (20 /20) (1.58E+03 - 3.70E+03)	(. / .) (- -)	1 2 3 4 5
AIR PARTICULATE (PCI/M3)	GROSS ALPHA		56	5.19E-04	1.48E-03 (32 /35) (6.51E-04 - 3.34E-03)	1.75E-03(20 /21) (5.33E-04 - 3.99E-03)	1 2 3 4 5
AIR PARTICULATE (PCI/M3)	GROSS BETA		56	4.22E-03	1.92E-02 (35 /35) (8.93E-03 - 3.86E-02)	1.93E-02(21 /21) (4.86E-03 - 4.26E-02)	1 2 3 4 5
AIR PARTICULATE (PCI/M3)	GELI GAMMA	CE-144	56	4.75E-02	< LLD (0 /35)	< LLD (0 /21)	1 2 3 4 5
AIR PARTICULATE (PCI/M3)	GELI GAMMA	AG-110M	56	6.94E-03	< LLD (0 /35)	< LLD (0 /21)	1 2 3 4 5
AIR PARTICULATE (PCI/M3)	GELI GAMMA	TE-129M	56	3.48E-01	< LLD (0 /35)	< LLD (0 /21)	1 2 3 4 5
AIR PARTICULATE (PCI/M3)	GELI GAMMA	MO-99	34	4.15E-01	< LLD (0 /22)	< LLD (0 /12)	1 2 3 4 5
AIR PARTICULATE (PCI/M3)	GELI GAMMA	ZRNB-95	44	5.93E-03	< LLD (0 /26)	< LLD (0 /18)	1 2 3 4 5

TABLE 21 (Continued)

RADIOLOGICAL ENVIRONMENTAL MONITORING PROGRAM SUMMARY
OYSTER CREEK NUCLEAR GENERATING STATION
MARCH, 1982 THROUGH JUNE 5, 1982
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
AIR PARTICULATE (PCI/M3)	GELI GAMMA	CS-134	56	6.38E-03	< LLD (0 /35)	< LLD (0 /21)	1 2 3 4 5
AIR PARTICULATE (PCI/M3)	GELI GAMMA	CO-58	56	8.23E-03	< LLD (0 /35)	< LLD (0 /21)	1 2 3 4 5
AIR PARTICULATE (PCI/M3)	GELI GAMMA	MN-54	56	7.23E-03	< LLD (0 /35)	< LLD (0 /21)	1 2 3 4 5
AIR PARTICULATE (PCI/M3)	GELI GAMMA	TH-232	56	2.33E-02	< LLD (0 /35)	< LLD (0 /21)	1 2 3 4 5
AIR PARTICULATE (PCI/M3)	GELI GAMMA	FE-59	56	1.86E-02	< LLD (0 /35)	< LLD (0 /21)	1 2 3 4 5
AIR PARTICULATE (PCI/M3)	GELI GAMMA	CS-136	56	2.60E-02	< LLD (0 /35)	< LLD (0 /21)	1 2 3 4 5
AIR PARTICULATE (PCI/M3)	GELI GAMMA	ZN-65	56	1.55E-02	< LLD (0 /35)	< LLD (0 /21)	1 2 3 4 5
AIR PARTICULATE (PCI/M3)	GELI GAMMA	CO-60	56	9.15E-03	< LLD (0 /35)	< LLD (0 /21)	1 2 3 4 5

TABLE 21 (Continued)

RADIOLOGICAL ENVIRONMENTAL MONITORING PROGRAM SUMMARY
OYSTER CREEK NUCLEAR GENERATING STATION
MARCH, 1982 THROUGH JUNE 5, 1982
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
AIR PARTICULATE (PCI/M3)	GELI GAMMA	K-40	56	1.01E-01	< LLD (0 /35)	< LLD (0 /21)	1 2 3 4 5
AIR PARTICULATE (PCI/M3)	GELI GAMMA	BALA-140	56	2.91E-02	< LLD (0 /35)	< LLD (0 /21)	1 2 3 4 5
AIR PARTICULATE (PCI/M3)	GELI GAMMA	BE-7	56	9.09E-02	1.27E-01 (17 /35) (6.60E-02 - 2.30E-01)	1.39E-01(11 /21) (3.80E-02 - 2.60E-01)	1 2 3 4 5
AIR PARTICULATE (PCI/M3)	GELI GAMMA	ZR-95	12	2.37E-02	< LLD (0 /9)	< LLD (0 /3)	1 2 3 4 5
AIR PARTICULATE (PCI/M3)	GELI GAMMA	NB-95	12	1.70E-02	< LLD (0 /9)	< LLD (0 /3)	1 2 3 4 5
AIR PARTICULATE (PCI/M3)	GELI GAMMA	SB-125	56	1.96E-02	< LLD (0 /35)	< LLD (0 /21)	1 2 3 4 5
AIR PARTICULATE (PCI/M3)	GELI GAMMA	CE-141	56	1.73E-02	< LLD (0 /35)	< LLD (0 /21)	1 2 3 4 5
AIR PARTICULATE (PCI/M3)	GELI GAMMA	RU-103	56	1.03E-02	< LLD (0 /35)	< LLD (0 /21)	1 2 3 4 5

TABLE 21 (Continued)

RADIOLOGICAL ENVIRONMENTAL MONITORING PROGRAM SUMMARY
OYSTER CREEK NUCLEAR GENERATING STATION
MARCH, 1982 THROUGH JUNE 5, 1982
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
AIR PARTICULATE (PCI/M3)	GELI GAMMA	CR-51	56	1.01E-01	< LLD (0 /35)	< LLD (0 /21)	1 2 3 4 5
AIR PARTICULATE (PCI/M3)	GELI GAMMA	RA-226	56	1.43E-02	< LLD (0 /35)	< LLD (0 /21)	1 2 3 4 5
AIR PARTICULATE (PCI/M3)	GELI GAMMA	I-131	56	7.24E-02	< LLD (0 /35)	< LLD (0 /21)	1 2 3 4 5
AIR PARTICULATE (PCI/M3)	GELI GAMMA	HP-239	26	1.86E+00	< LLD (0 /18)	< LLD (0 /8)	1 2 3 4 5
AIR PARTICULATE (PCI/M3)	GELI GAMMA	RU-106	56	6.43E-02	< LLD (0 /35)	< LLD (0 /21)	1 2 3 4 5
AIR PARTICULATE (PCI/M3)	GELI GAMMA	CO-57	56	5.70E-03	< LLD (0 /35)	< LLD (0 /21)	1 2 3 4 5
AIR PARTICULATE (PCI/M3)	GELI GAMMA	CS-137	56	6.97E-03	< LLD (0 /35)	< LLD (0 /21)	1 2 3 4 5
AIR PARTICULATE (PCI/M3)	STRONTIUM-89		16	3.72E-04	9.42E-04 (3 /10) (3.35E-04 - 2.15E-03)	5.04E-04(1 /6) (5.04E-04 - 5.04E-04)	1 2 3 4 5

TABLE 21 (Continued)
 RADIOLOGICAL ENVIRONMENTAL MONITORING PROGRAM SUMMARY
 OYSTER CREEK NUCLEAR GENERATING STATION
 MARCH, 1982 THROUGH JUNE 5, 1982
 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
AIR PARTICULATE (PCI/M3)	STRONTIUM-90		16	3.65E-04	5.69E-04 (6 /10) (2.50E-04 - 1.75E-03)	< LLD (0 /6)	1 2 3 4 5
PRECIPITATION (PCI/L)	GROSS BETA-SS		31	1.91E+00	2.63E+00 (1 /20) (2.63E+00 - 2.63E+00)	< LLD (0 /11)	1 2 3 4 5
PRECIPITATION (PCI/L)	GROSS BETA-DS		32	2.00E+00	7.49E+00 (19 /20) (2.99E+00 - 1.66E+01)	7.17E+00(12 /12) (3.53E+00 - 2.04E+01)	1 2 3 4 5
PRECIPITATION (PCI/L)	GELI GAMMA	CE-144	32	9.95E+01	< LLD (0 /20)	< LLD (0 /12)	1 2 3 4 5
PRECIPITATION (PCI/L)	GELI GAMMA	AG-110M	32	1.09E+01	< LLD (0 /20)	< LLD (0 /12)	1 2 3 4 5
PRECIPITATION (PCI/L)	GELI GAMMA	TE-129M	32	5.62E+02	< LLD (0 /20)	< LLD (0 /12)	1 2 3 4 5
PRECIPITATION (PCI/L)	GELI GAMMA	MO-99	15	9.47E+02	< LLD (0 /12)	< LLD (0 /3)	1 2 3 4 5
PRECIPITATION (PCI/L)	GELI GAMMA	ZRNB-95	5	9.90E+00	< LLD (0 /3)	< LLD (0 /2)	3 4 5

TABLE 21 (Continued)
 RADIOLOGICAL ENVIRONMENTAL MONITORING PROGRAM SUMMARY
 OYSTER CREEK NUCLEAR GENERATING STATION
 MARCH, 1982 THROUGH JUNE 5, 1982
 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
PRECIPITATION (PCI/L)	GELI GAMMA	CS-134	32	1.02E+01	< LLD (0 /20)	< LLD (0 /12)	1 2 3 4 5
PRECIPITATION (PCI/L)	GELI GAMMA	CO-58	32	1.24E+01	< LLD (0 /20)	< LLD (0 /12)	1 2 3 4 5
PRECIPITATION (PCI/L)	GELI GAMMA	MN-54	32	1.02E+01	< LLD (0 /20)	< LLD (0 /12)	1 2 3 4 5
PRECIPITATION (PCI/L)	GELI GAMMA	TH-232	32	3.47E+01	< LLD (0 /20)	< LLD (0 /12)	1 2 3 4 5
PRECIPITATION (PCI/L)	GELI GAMMA	FE-59	32	2.48E+01	< LLD (0 /20)	< LLD (0 /12)	1 2 3 4 5
PRECIPITATION (PCI/L)	GELI GAMMA	CS-136	32	3.95E+01	< LLD (0 /20)	< LLD (0 /12)	1 2 3 4 5
PRECIPITATION (PCI/L)	GELI GAMMA	ZN-65	32	2.09E+01	2.70E+01 (1 /20) (2.70E+01 - 2.70E+01)	< LLD (0 /12)	1 2 3 4 5
PRECIPITATION (PCI/L)	GELI GAMMA	CO-60	32	1.01E+01	< LLD (0 /20)	< LLD (0 /12)	1 2 3 4 5

TABLE 21 (Continued)
 RADIOLOGICAL ENVIRONMENTAL MONITORING PROGRAM SUMMARY
 OYSTER CREEK NUCLEAR GENERATING STATION
 MARCH, 1982 THROUGH JUNE 5, 1982
 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				
PRECIPITATION (PCI/L)	GELI GAMMA	K-40	32	1.07E+02	< LLD	(0 /20)	< LLD	(0 /12)	1	2	3	4	5
PRECIPITATION (PCI/L)	GELI GAMMA	BALA-140	32	3.82E+01	< LLD	(0 /20)	< LLD	(0 /12)	1	2	3	4	5
PRECIPITATION (PCI/L)	GELI GAMMA	BE-7	32	1.27E+02	< LLD	(0 /20)	< LLD	(0 /12)	1	2	3	4	5
PRECIPITATION (PCI/L)	GELI GAMMA	ZR-95	27	2.28E+01	< LLD	(0 /17)	< LLD	(0 /10)	1	2	3	4	5
PRECIPITATION (PCI/L)	GELI GAMMA	NB-95	27	1.59E+01	< LLD	(0 /17)	< LLD	(0 /10)	1	2	3	4	5
PRECIPITATION (PCI/L)	GELI GAMMA	SB-125	32	3.23E+01	< LLD	(0 /20)	< LLD	(0 /12)	1	2	3	4	5
PRECIPITATION (PCI/L)	GELI GAMMA	CE-141	32	3.61E+01	< LLD	(0 /20)	< LLD	(0 /12)	1	2	3	4	5
PRECIPITATION (PCI/L)	GELI GAMMA	RU-103	32	1.67E+01	< LLD	(0 /20)	< LLD	(0 /12)	1	2	3	4	5

TABLE 21 (Continued)
 RADIOLOGICAL ENVIRONMENTAL MONITORING PROGRAM SUMMARY
 OYSTER CREEK NUCLEAR GENERATING STATION
 MARCH, 1982 THROUGH JUNE 5, 1982
 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
PRECIPITATION (PCI/L)	GELI GAMMA	CR-51	32	1.76E+02	< LLD (0 /20)	< LLD (0 /12)	1 2 3 4 5
PRECIPITATION (PCI/L)	GELI GAMMA	RA-226	32	2.12E+01	< LLD (0 /20)	< LLD (0 /12)	1 2 3 4 5
PRECIPITATION (PCI/L)	GELI GAMMA	I-131	32	1.32E+02	< LLD (0 /20)	< LLD (0 /12)	1 2 3 4 5
PRECIPITATION (PCI/L)	GELI GAMMA	NP-239	10	4.09E+03	< LLD (0 /9)	< LLD (0 /1)	1 2 3 4 5
PRECIPITATION (PCI/L)	GELI GAMMA	RU-106	32	1.03E+02	< LLD (0 /20)	< LLD (0 /12)	1 2 3 4 5
PRECIPITATION (PCI/L)	GELI GAMMA	CO-57	32	1.29E+01	< LLD (0 /20)	< LLD (0 /12)	1 2 3 4 5
PRECIPITATION (PCI/L)	GELI GAMMA	CS-137	32	1.08E+01	< LLD (0 /20)	< LLD (0 /12)	1 2 3 4 5
PRECIPITATION (PCI/L)	TRITIUM		32	1.80E+02	4.02E+02 (1 /20) (4.02E+02 - 4.02E+02)	< LLD (0 /12)	1 2 3 4 5

TABLE 21 (Continued)
 RADIOLOGICAL ENVIRONMENTAL MONITORING PROGRAM SUMMARY
 OYSTER CREEK NUCLEAR GENERATING STATION
 MARCH, 1982 THROUGH JUNE 5, 1982
 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
PRECIPITATION (PCI/L)	STRONTIUM-89		32	1.06E+00	2.62E+00 (3 /20) (2.47E+00 - 2.74E+00)	1.90E+00(4 /12) (6.65E-01 - 3.12E+00)	1 2 3 4 5
PRECIPITATION (PCI/L)	STRONTIUM-90		32	7.93E-01	1.86E+00 (7 /20) (5.83E-01 - 3.85E+00)	1.13E+00(2 /12) (5.38E-01 - 1.72E+00)	1 2 3 4 5
AIR IODINE (PCI/M3)	IODINE-131		56	1.56E-02	< LLD (0 /35)	< LLD (0 /21)	1 2 3 4 5
SURFACE WATER (PCI/L)	GROSS ALPHA-SS		32	3.13E-01	3.83E-01 (10 /28) (2.30E-01 - 6.62E-01)	4.94E-01(1 /4) (4.94E-01 - 4.94E-01)	23 24 25 26 27 32 33
SURFACE WATER (PCI/L)	GROSS BETA-SS		32	7.01E-01	9.17E-01 (7 /28) (5.72E-01 - 1.90E+00)	< LLD (0 /4)	23 24 25 26 27 32 33
SURFACE WATER (PCI/L)	GROSS BETA-DS		32	8.02E+00	1.43E+02 (22 /28) (2.97E+00 - 2.08E+02)	1.83E+02(4 /4) (1.48E+02 - 2.45E+02)	23 24 25 26 27 32 33
SURFACE WATER (PCI/L)	POTASSIUM-40		24	8.60E-01	1.58E+02 (15 /21) (1.70E+01 - 2.05E+02)	2.08E+02(3 /3) (1.70E+02 - 2.51E+02)	23 24 25 26 27 32 33
SURFACE WATER (MG/L)	CALCIUM BY AA		32	8.00E-02	8.88E+01 (28 /28) (1.25E+00 - 1.95E+02)	1.52E+02(4 /4) (1.20E+02 - 2.00E+02)	23 24 25 26 27 32 33

TABLE 21 (Continued)

RADIOLOGICAL ENVIRONMENTAL MONITORING PROGRAM SUMMARY
OYSTER CREEK NUCLEAR GENERATING STATION
MARCH, 1982 THROUGH JUNE 5, 1982
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				
SURFACE WATER (PCI/L)	TRITIUM		32	1.67E+02	< LLD (0 /28)	< LLD (0 /4)	23 32	24 33	25	26	27
SURFACE WATER (PCI/L)	IODINE-131		32	1.06E-01	< LLD (0 /28)	< LLD (0 /4)	23 32	24 33	25	26	27
SURFACE WATER (PCI/L)	NAI GAMMA	CE-144	31	6.19E+01	< LLD (0 /27)	< LLD (0 /4)	23 32	24 33	25	26	27
SURFACE WATER (PCI/L)	NAI GAMMA	AG-110M	32	5.98E+00	< LLD (0 /28)	< LLD (0 /4)	23 32	24 33	25	26	27
SURFACE WATER (PCI/L)	NAI GAMMA	TE-129M	32	1.24E+02	< LLD (0 /28)	< LLD (0 /4)	23 32	24 33	25	26	27
SURFACE WATER (PCI/L)	NAI GAMMA	MO-99	32	1.82E+03	< LLD (0 /28)	< LLD (0 /4)	23 32	24 33	25	26	27
SURFACE WATER (PCI/L)	NAI GAMMA	ZRNB-95	32	5.77E+00	< LLD (0 /28)	< LLD (0 /4)	23 32	24 33	25	26	27
SURFACE WATER (PCI/L)	NAI GAMMA	CS-134	32	5.76E+00	< LLD (0 /28)	< LLD (0 /4)	23 32	24 33	25	26	27

TABLE 21 (Continued)

RADIOLOGICAL ENVIRONMENTAL MONITORING PROGRAM SUMMARY
OYSTER CREEK NUCLEAR GENERATING STATION
MARCH, 1982 THROUGH JUNE 5, 1982
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				
SURFACE WATER (PCI/L)	NAI GAMMA	CO-58	32	6.71E+00	< LLD (0 /28)	< LLD (0 /4)	23 32	24 33	25	26	27
SURFACE WATER (PCI/L)	NAI GAMMA	MN-54	32	5.86E+00	< LLD (0 /28)	< LLD (0 /4)	23 32	24 33	25	26	27
SURFACE WATER (PCI/L)	NAI GAMMA	TH-232	32	1.94E+01	< LLD (0 /28)	< LLD (0 /4)	23 32	24 33	25	26	27
SURFACE WATER (PCI/L)	NAI GAMMA	FE-59	32	1.38E+01	< LLD (0 /28)	< LLD (0 /4)	23 32	24 33	25	26	27
SURFACE WATER (PCI/L)	NAI GAMMA	CS-136	32	1.73E+01	< LLD (0 /28)	< LLD (0 /4)	23 32	24 33	25	26	27
SURFACE WATER (PCI/L)	NAI GAMMA	TE-132	32	2.71E+02	< LLD (0 /28)	< LLD (0 /4)	23 32	24 33	25	26	27
SURFACE WATER (PCI/L)	NAI GAMMA	ZN-65	32	1.29E+01	< LLD (0 /28)	< LLD (0 /4)	23 32	24 33	25	26	27
SURFACE WATER (PCI/L)	NAI GAMMA	CO-60	32	5.89E+00	< LLD (0 /28)	< LLD (0 /4)	23 32	24 33	25	26	27

TABLE 21 (Continued)

RADIOLOGICAL ENVIRONMENTAL MONITORING PROGRAM SUMMARY
OYSTER CREEK NUCLEAR GENERATING STATION
MARCH, 1982 THROUGH JUNE 5, 1982
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				
SURFACE WATER (PCI/L)	NAI GAMMA	K-40	32	8.44E+01	2.37E+02 (18 /28) (1.40E+02 - 3.40E+02)	2.67E+02(4 /4) (2.10E+02 - 3.70E+02)	23 32	24 33	25	26	27
SURFACE WATER (PCI/L)	NAI GAMMA	BALA-140	32	1.35E+01	< LLD (0 /28)	< LLD (0 /4)	23 32	24 33	25	26	27
SURFACE WATER (PCI/L)	NAI GAMMA	BE-7	32	6.84E+01	< LLD (0 /28)	< LLD (0 /4)	23 32	24 33	25	26	27
SURFACE WATER (PCI/L)	NAI GAMMA	CR-51	32	8.39E+01	< LLD (0 /28)	< LLD (0 /4)	23 32	24 33	25	26	27
SURFACE WATER (PCI/L)	NAI GAMMA	RA-226	32	1.11E+01	< LLD (0 /28)	< LLD (0 /4)	23 32	24 33	25	26	27
SURFACE WATER (PCI/L)	NAI GAMMA	I-131	32	2.73E+01	< LLD (0 /28)	< LLD (0 /4)	23 32	24 33	25	26	27
SURFACE WATER (PCI/L)	NAI GAMMA	NA-22	32	5.96E+00	< LLD (0 /28)	< LLD (0 /4)	23 32	24 33	25	26	27
SURFACE WATER (PCI/L)	NAI GAMMA	RU-106	32	5.95E+01	< LLD (0 /28)	< LLD (0 /4)	23 32	24 33	25	26	27

TABLE 21 (Continued)

RADIOLOGICAL ENVIRONMENTAL MONITORING PROGRAM SUMMARY
OYSTER CREEK NUCLEAR GENERATING STATION
MARCH, 1982 THROUGH JUNE 5, 1982
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				
SURFACE WATER (PCI/L)	NAI GAMMA	I-133	32	7.11E+00	< LLD (0 /28)	< LLD (0 /4)	23 32	24 33	25	26	27
SURFACE WATER (PCI/L)	NAI GAMMA	CS-137	32	6.22E+00	< LLD (0 /28)	< LLD (0 /4)	23 32	24 33	25	26	27
SURFACE WATER (PCI/L)	RADIUM-226		32	5.91E-02	3.79E-01 (27 /28) (1.03E-01 - 1.00E+00)	1.53E-01(4 /4) (1.06E-01 - 2.51E-01)	23 32	24 33	25	26	27
SURFACE WATER (PCI/L)	RADIUM-228		32	1.03E+00	9.53E-01 (3 /28) (3.38E-01 - 1.38E+00)	< LLD (0 /4)	23 32	24 33	25	26	27
SURFACE WATER (PCI/L)	STRONTIUM-89		32	1.85E+00	7.67E-01 (11 /28) (2.80E-01 - 2.45E+00)	< LLD (0 /4)	23 32	24 33	25	26	27
SURFACE WATER (PCI/L)	STRONTIUM-90		32	1.58E+00	1.57E+00 (8 /28) (4.20E-01 - 3.43E+00)	1.73E+01(2 /4) (8.01E-01 - 3.37E+01)	23 32	24 33	25	26	27
SURFACE WATER (PCI/L)	TOTAL URANIUM		32	3.08E-01	1.44E+00 (22 /28) (2.80E-01 - 1.98E+00)	1.72E+00(4 /4) (1.63E+00 - 1.80E+00)	23 32	24 33	25	26	27
SURFACE WATER (PCI/L)	GROSS ALPHA-DS		32	4.75E-01	2.08E+00 (22 /28) (5.50E-01 - 7.62E+00)	2.21E+00(4 /4) (1.96E+00 - 2.44E+00)	23 32	24 33	25	26	27

TABLE 21 (Continued)
 RADIOLOGICAL ENVIRONMENTAL MONITORING PROGRAM SUMMARY
 OYSTER CREEK NUCLEAR GENERATING STATION
 MARCH, 1982 THROUGH JUNE 5, 1982
 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)	GROSS ALPHA-SS		24	2.38E-01	2.95E-01 (2 /24) (2.30E-01 - 3.60E-01)	(. / .) (. - .)	1 18 19 20 21 22
WELL WATER (PCI/L)	GROSS ALPHA-DS		24	2.28E+00	2.41E+00 (8 /24) (3.08E-01 - 7.63E+00)	(. / .) (. - .)	1 18 19 20 21 22
WELL WATER (PCI/L)	GROSS BETA-SS		24	5.34E-01	< LLD (0 /24)	(. / .) (. - .)	1 18 19 20 21 22
WELL WATER (PCI/L)	GROSS BETA-DS		24	7.89E-01	2.70E+00 (23 /24) (1.38E+00 - 4.77E+00)	(. / .) (. - .)	1 18 19 20 21 22
WELL WATER (PCI/L)	POTASSIUM-40		6	8.60E-01	1.83E+00 (4 /6) (1.45E+00 - 2.13E+00)	(. / .) (. - .)	1 18 19 20 21 22
WELL WATER (PCI/L)	TRITIUM		6	1.50E+02	4.61E+02 (1 /6) (4.61E+02 - 4.61E+02)	(. / .) (. - .)	1 18 19 20 21 22
WELL WATER (PCI/L)	NAI GAMMA	CE-144	11	6.29E+01	< LLD (0 /11)	(. / .) (. - .)	1 18 19 20 21 22
WELL WATER (PCI/L)	NAI GAMMA	AG-110M	12	6.34E+00	< LLD (0 /12)	(. / .) (. - .)	1 18 19 20 21 22

TABLE 21 (Continued)
 RADIOLOGICAL ENVIRONMENTAL MONITORING PROGRAM SUMMARY
 OYSTER CREEK NUCLEAR GENERATING STATION
 MARCH, 1982 THROUGH JUNE 5, 1982
 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)	NAI GAMMA	TE-129M	12	1.30E+02	< LLD (0 /12)	(. /.)	1 18 19 20 21 22
WELL WATER (PCI/L)	NAI GAMMA	MO-99	12	1.70E+03	< LLD (0 /12)	(. /.)	1 18 19 20 21 22
WELL WATER (PCI/L)	NAI GAMMA	ZRNB-95	12	5.95E+00	< LLD (0 /12)	(. /.)	1 18 19 20 21 22
WELL WATER (PCI/L)	NAI GAMMA	CS-134	12	6.30E+00	< LLD (0 /12)	(. /.)	1 18 19 20 21 22
WELL WATER (PCI/L)	NAI GAMMA	CO-58	12	6.97E+00	< LLD (0 /12)	(. /.)	1 18 19 20 21 22
WELL WATER (PCI/L)	NAI GAMMA	MN-54	12	6.27E+00	< LLD (0 /12)	(. /.)	1 18 19 20 21 22
WELL WATER (PCI/L)	NAI GAMMA	TH-232	12	2.35E+01	< LLD (0 /12)	(. /.)	1 18 19 20 21 22
WELL WATER (PCI/L)	NAI GAMMA	FE-59	12	1.36E+01	< LLD (0 /12)	(. /.)	1 18 19 20 21 22

TABLE 21 (Continued)

RADIOLOGICAL ENVIRONMENTAL MONITORING PROGRAM SUMMARY
OYSTER CREEK NUCLEAR GENERATING STATION
MARCH, 1982 THROUGH JUNE 5, 1982
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)	NAI GAMMA	CS-136	12	1.67E+01	< LLD (0 /12)	(. /.)	1 18 19 20 21 22
WELL WATER (PCI/L)	NAI GAMMA	TE-132	12	1.69E+02	< LLD (0 /12)	(. /.)	1 18 19 20 21 22
WELL WATER (PCI/L)	NAI GAMMA	ZN-65	12	1.32E+01	< LLD (0 /12)	(. /.)	1 18 19 20 21 22
WELL WATER (PCI/L)	NAI GAMMA	CO-60	12	6.47E+00	< LLD (0 /12)	(. /.)	1 18 19 20 21 22
WELL WATER (PCI/L)	NAI GAMMA	K-40	12	7.00E+01	< LLD (0 /12)	(. /.)	1 18 19 20 21 22
WELL WATER (PCI/L)	NAI GAMMA	BALA-140	12	1.45E+01	< LLD (0 /12)	(. /.)	1 18 19 20 21 22
WELL WATER (PCI/L)	NAI GAMMA	BE-7	12	7.32E+01	< LLD (0 /12)	(. /.)	1 18 19 20 21 22
WELL WATER (PCI/L)	NAI GAMMA	CR-51	12	8.95E+01	< LLD (0 /12)	(. /.)	1 18 19 20 21 22

TABLE 21 (Continued)

RADIOLOGICAL ENVIRONMENTAL MONITORING PROGRAM SUMMARY
OYSTER CREEK NUCLEAR GENERATING STATION
MARCH, 1982 THROUGH JUNE 5, 1982
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)	NAI GAMMA	RA-226	12	1.20E+01	< LLD (0 /12)	(. /.) - .)	1 18 19 20 21 22
WELL WATER (PCI/L)	NAI GAMMA	I-131	12	2.63E+01	< LLD (0 /12)	(. /.) - .)	1 18 19 20 21 22
WELL WATER (PCI/L)	NAI GAMMA	NA-22	12	6.42E+00	< LLD (0 /12)	(. /.) - .)	1 18 19 20 21 22
WELL WATER (PCI/L)	NAI GAMMA	RU-106	12	6.12E+01	< LLD (0 /12)	(. /.) - .)	1 18 19 20 21 22
WELL WATER (PCI/L)	NAI GAMMA	I-133	12	7.53E+00	< LLD (0 /12)	(. /.) - .)	1 18 19 20 21 22
WELL WATER (PCI/L)	NAI GAMMA	CS-137	12	7.00E+00	< LLD (0 /12)	(. /.) - .)	1 18 19 20 21 22
WELL WATER (PCI/L)	RADIUM-226		6	6.93E-02	3.23E-01 (5 /6) (8.46E-02 - 5.96E-01)	(. /.) - .)	1 18 19 20 21 22
WELL WATER (PCI/L)	RADIUM-228		6	1.18E+00	3.92E+00 (2 /6) (1.14E+00 - 6.70E+00)	(. /.) - .)	1 18 19 20 21 22

TABLE 21 (Continued)
 RADIOLOGICAL ENVIRONMENTAL MONITORING PROGRAM SUMMARY
 OYSTER CREEK NUCLEAR GENERATING STATION
 MARCH, 1982 THROUGH JUNE 5, 1982
 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)	TOTAL URANIUM		5	1.40E-01	2.50E-01 (2 /5) (2.50E-01 - 2.50E-01)	(. / .) (- -)	1 18 19 21 22
CLAMS (PCI/KG(WET))	GROSS ALPHA		16	1.43E+02	6.58E+02 (7 /12) (4.71E+01 - 2.26E+03)	6.81E+02(3 /4) (5.29E+01 - 1.89E+03)	23 24 25
CLAMS (PCI/KG(WET))	GROSS BETA		16	4.70E+01	1.22E+03 (12 /12) (3.67E+02 - 3.63E+03)	1.21E+03(4 /4) (4.43E+02 - 2.82E+03)	23 24 25
CLAMS (MG/GM(WET))	CALCIUM BY AA		4	8.00E-02	7.67E+01 (3 /3) (5.50E+01 - 1.05E+02)	8.25E+01(1 /1) (8.25E+01 - 8.25E+01)	23 24 25
CLAMS (PCI/KG(WET))	NAI GAMMA	CE-144	4	1.01E+02	< LLD (0 /3)	< LLD (0 /1)	23 24 25
CLAMS (PCI/KG(WET))	NAI GAMMA	AG-110M	4	2.45E+01	< LLD (0 /3)	< LLD (0 /1)	23 24 25
CLAMS (PCI/KG(WET))	NAI GAMMA	TE-129M	4	5.07E+02	< LLD (0 /3)	< LLD (0 /1)	23 24 25
CLAMS (PCI/KG(WET))	NAI GAMMA	MO-99	4	1.38E+04	< LLD (0 /3)	< LLD (0 /1)	23 24 25

TABLE 21 (Continued)
 RADIOLOGICAL ENVIRONMENTAL MONITORING PROGRAM SUMMARY
 OYSTER CREEK NUCLEAR GENERATING STATION
 MARCH, 1982 THROUGH JUNE 5, 1982
 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/KG(WET))	NAI GAMMA	ZRNB-95	4	2.72E+01	< LLD (0 /3)	< LLD (0 /1)	23 24 25
CLAMS (PCI/KG(WET))	NAI GAMMA	CS-134	4	2.80E+01	< LLD (0 /3)	< LLD (0 /1)	23 24 25
CLAMS (PCI/KG(WET))	NAI GAMMA	CO-58	4	3.25E+01	< LLD (0 /3)	< LLD (0 /1)	23 24 25
CLAMS (PCI/KG(WET))	NAI GAMMA	MN-54	4	2.80E+01	< LLD (0 /3)	< LLD (0 /1)	23 24 25
CLAMS (PCI/KG(WET))	NAI GAMMA	TH-232	4	8.92E+01	< LLD (0 /3)	< LLD (0 /1)	23 24 25
CLAMS (PCI/KG(WET))	NAI GAMMA	FE-59	4	6.20E+01	< LLD (0 /3)	< LLD (0 /1)	23 24 25
CLAMS (PCI/KG(WET))	NAI GAMMA	CS-136	4	8.13E+01	< LLD (0 /3)	< LLD (0 /1)	23 24 25
CLAMS (PCI/KG(WET))	NAI GAMMA	TE-132	4	7.05E+02	< LLD (0 /3)	< LLD (0 /1)	23 24 25

TABLE 21 (Continued)

RADIOLOGICAL ENVIRONMENTAL MONITORING PROGRAM SUMMARY
OYSTER CREEK NUCLEAR GENERATING STATION
MARCH, 1982 THROUGH JUNE 5, 1982
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/KG(WET))	NAI GAMMA	ZN-65	4	6.10E+01	< LLD (0 /3)	< LLD (0 /1)	23 24 25
CLAMS (PCI/KG(WET))	NAI GAMMA	CO-60	4	3.50E+01	< LLD (0 /3)	< LLD (0 /1)	23 24 25
CLAMS (PCI/KG(WET))	NAI GAMMA	K-40	4	3.50E+02	5.67E+02 (3 /3) (4.40E+02 - 7.40E+02)	8.00E+02(1 /1) (8.00E+02 - 8.00E+02)	23 24 25
CLAMS (PCI/KG(WET))	NAI GAMMA	BALA-140	4	7.20E+01	< LLD (0 /3)	< LLD (0 /1)	23 24 25
CLAMS (PCI/KG(WET))	NAI GAMMA	BE-7	4	2.00E+02	< LLD (0 /3)	< LLD (0 /1)	23 24 25
CLAMS (PCI/KG(WET))	NAI GAMMA	CR-51	4	2.35E+02	< LLD (0 /3)	< LLD (0 /1)	23 24 25
CLAMS (PCI/KG(WET))	NAI GAMMA	RA-226	4	4.70E+01	< LLD (0 /3)	< LLD (0 /1)	23 24 25
CLAMS (PCI/KG(WET))	NAI GAMMA	I-131	4	9.22E+01	< LLD (0 /3)	< LLD (0 /1)	23 24 25

TABLE 21 (Continued)

RADIOLOGICAL ENVIRONMENTAL MONITORING PROGRAM SUMMARY
OYSTER CREEK NUCLEAR GENERATING STATION
MARCH, 1982 THROUGH JUNE 5, 1982
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/KG(WET))	NAI GAMMA	NA-22	4	3.10E+01	< LLD (0 /3)	< LLD (0 /1)	23 24 25
CLAMS (PCI/KG(WET))	NAI GAMMA	RU-106	4	2.00E+02	< LLD (0 /3)	< LLD (0 /1)	23 24 25
CLAMS (PCI/KG(WET))	NAI GAMMA	I-133	4	3.10E+01	< LLD (0 /3)	< LLD (0 /1)	23 24 25
CLAMS (PCI/KG(WET))	NAI GAMMA	CS-137	4	2.72E+01	< LLD (0 /3)	< LLD (0 /1)	23 24 25
CLAMS (PCI/KG(WET))	STRONTIUM-89		8	1.45E+01	< LLD (0 /6)	< LLD (0 /2)	23 24 25
CLAMS (PCI/KG(WET))	STRONTIUM-90		8	1.22E+01	7.87E+00 (3 /6) (4.20E+00 - 1.40E+01)	6.71E+00(1 /2) (6.71E+00 - 6.71E+00)	23 24 25
SOIL (PCI/KG(DRY))	GROSS BETA		20	1.86E+03	5.62E+03 (19 /20) (1.97E+03 - 1.13E+04)	(. / .) (. / .)	1 2 3 4 5
SOIL (PCI/KG(DRY))	GELI GAMMA	CE-144	10	1.45E+02	3.80E+02 (1 /10) (3.80E+02 - 3.80E+02)	(. / .) (. / .)	1 2 3 4 5

TABLE 21 (Continued)
 RADIOLOGICAL ENVIRONMENTAL MONITORING PROGRAM SUMMARY
 OYSTER CREEK NUCLEAR GENERATING STATION
 MARCH, 1982 THROUGH JUNE 5, 1982
 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
SOIL (PCI/KG(DRY))	GELI GAMMA	AG-110M	10	5.60E+01	< LLD (0 /10)	(. /.) (. /.)	1 2 3 4 5
SOIL (PCI/KG(DRY))	GELI GAMMA	TE-129M	10	1.58E+03	< LLD (0 /10)	(. /.) (. /.)	1 2 3 4 5
SOIL (PCI/KG(DRY))	GELI GAMMA	ZRNB-95	10	2.14E+01	< LLD (0 /10)	(. /.) (. /.)	1 2 3 4 5
SOIL (PCI/KG(DRY))	GELI GAMMA	CS-134	10	2.27E+01	< LLD (0 /10)	(. /.) (. /.)	1 2 3 4 5
SOIL (PCI/KG(DRY))	GELI GAMMA	CO-58	10	2.61E+01	< LLD (0 /10)	(. /.) (. /.)	1 2 3 4 5
SOIL (PCI/KG(DRY))	GELI GAMMA	MN-54	10	2.09E+01	< LLD (0 /10)	(. /.) (. /.)	1 2 3 4 5
SOIL (PCI/KG(DRY))	GELI GAMMA	TH-232	10	7.14E+01	4.42E+02 (10 /10) (2.70E+02 - 7.30E+02)	(. /.) (. /.)	1 2 3 4 5
SOIL (PCI/KG(DRY))	GELI GAMMA	FE-59	10	6.49E+01	< LLD (0 /10)	(. /.) (. /.)	1 2 3 4 5

TABLE 21 (Continued)
 RADIOLOGICAL ENVIRONMENTAL MONITORING PROGRAM SUMMARY
 OYSTER CREEK NUCLEAR GENERATING STATION
 MARCH, 1982 THROUGH JUNE 5, 1982
 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
SOIL (PCI/KG(DRY))	GELI GAMMA	CS-136	10	3.51E+02	< LLD (0 /10)	(. /.)	1 2 3 4 5
SOIL (PCI/KG(DRY))	GELI GAMMA	ZN-65	10	4.92E+01	< LLD (0 /10)	(. /.)	1 2 3 4 5
SOIL (PCI/KG(DRY))	GELI GAMMA	CO-60	10	2.26E+01	< LLD (0 /10)	(. /.)	1 2 3 4 5
SOIL (PCI/KG(DRY))	GELI GAMMA	K-40	10	2.45E+02	1.92E+03 (9 /10) (9.70E+02 - 4.40E+03)	(. /.)	1 2 3 4 5
SOIL (PCI/KG(DRY))	GELI GAMMA	BALA-140	10	4.48E+02	< LLD (0 /10)	(. /.)	1 2 3 4 5
SOIL (PCI/KG(DRY))	GELI GAMMA	BE-7	10	3.38E+02	1.60E+03 (1 /10) (1.60E+03 - 1.60E+03)	(. /.)	1 2 3 4 5
SOIL (PCI/KG(DRY))	GELI GAMMA	SB-125	10	6.40E+01	1.10E+02 (1 /10) (1.10E+02 - 1.10E+02)	(. /.)	1 2 3 4 5
SOIL (PCI/KG(DRY))	GELI GAMMA	CE-141	10	8.80E+01	< LLD (0 /10)	(. /.)	1 2 3 4 5

TABLE 21 (Continued)
 RADIOLOGICAL ENVIRONMENTAL MONITORING PROGRAM SUMMARY
 OYSTER CREEK NUCLEAR GENERATING STATION
 MARCH, 1982 THROUGH JUNE 5, 1982
 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
SOIL (PCI/KG(DRY))	GELI GAMMA	RU-103	10	4.62E+01	< LLD (0 /10)	(. / .)	1 2 3 4 5
SOIL (PCI/KG(DRY))	GELI GAMMA	CR-51	10	5.54E+02	< LLD (0 /10)	(. / .)	1 2 3 4 5
SOIL (PCI/KG(DRY))	GELI GAMMA	RA-226	10	4.84E+01	4.56E+02 (10 /10) (3.00E+02 - 6.30E+02)	(. / .)	1 2 3 4 5
SOIL (PCI/KG(DRY))	GELI GAMMA	I-131	8	7.39E+02	< LLD (0 /8)	(. / .)	1 2 3 4 5
SOIL (PCI/KG(DRY))	GELI GAMMA	RU-106	10	1.81E+02	< LLD (0 /10)	(. / .)	1 2 3 4 5
SOIL (PCI/KG(DRY))	GELI GAMMA	CO-57	10	1.75E+01	< LLD (0 /10)	(. / .)	1 2 3 4 5
SOIL (PCI/KG(DRY))	GELI GAMMA	CS-137	10	2.42E+01	9.52E+02 (10 /10) (2.50E+01 - 3.00E+03)	(. / .)	1 2 3 4 5
PASTURE (PCI/KG(WET))	GROSS BETA		3	2.15E+01	3.40E+03 (3 /3) (2.27E+03 - 4.17E+03)	(. / .)	28 29 30

TABLE 21 (Continued)
 RADIOLOGICAL ENVIRONMENTAL MONITORING PROGRAM SUMMARY
 OYSTER CREEK NUCLEAR GENERATING STATION
 MARCH, 1982 THROUGH JUNE 5, 1982
 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
PASTURE (MG/GM(WET))	CALCIUM BY AA		3	8.00E-02	6.25E+01 (3 /3) (3.50E+01 - 7.75E+01)	(. / .) (- .)	28 29 30
PASTURE (PCI/KG(WET))	NAI GAMMA	CE-144	3	5.50E+02	< LLD (0 /3)	(. / .) (- .)	28 29 30
PASTURE (PCI/KG(WET))	NAI GAMMA	AG-110M	3	1.33E+02	< LLD (0 /3)	(. / .) (- .)	28 29 30
PASTURE (PCI/KG(WET))	NAI GAMMA	TE-129M	3	2.53E+03	< LLD (0 /3)	(. / .) (- .)	28 29 30
PASTURE (PCI/KG(WET))	NAI GAMMA	MO-99	3	3.03E+05	< LLD (0 /3)	(. / .) (- .)	28 29 30
PASTURE (PCI/KG(WET))	NAI GAMMA	ZRNB-95	3	1.20E+02	< LLD (0 /3)	(. / .) (- .)	28 29 30
PASTURE (PCI/KG(WET))	NAI GAMMA	CS-134	3	1.20E+02	< LLD (0 /3)	(. / .) (- .)	28 29 30
PASTURE (PCI/KG(WET))	NAI GAMMA	CO-58	3	1.50E+02	< LLD (0 /3)	(. / .) (- .)	28 29 30

TABLE 21 (Continued)

RADIOLOGICAL ENVIRONMENTAL MONITORING PROGRAM SUMMARY
OYSTER CREEK NUCLEAR GENERATING STATION
MARCH, 1982 THROUGH JUNE 5, 1982
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
PASTURE (PCI/KG(WET))	NAI GAMMA	MN-54	3	1.23E+02	< LLD (0 / 3)	(. (. / .))	28 29 30
PASTURE (PCI/KG(WET))	NAI GAMMA	TH-232	3	4.70E+02	< LLD (0 / 3)	(. (. / .))	28 29 30
PASTURE (PCI/KG(WET))	NAI GAMMA	FE-59	3	2.97E+02	< LLD (0 / 3)	(. (. / .))	28 29 30
PASTURE (PCI/KG(WET))	NAI GAMMA	CS-136	3	5.30E+02	< LLD (0 / 3)	(. (. / .))	28 29 30
PASTURE (PCI/KG(WET))	NAI GAMMA	TE-132	3	1.43E+04	< LLD (0 / 3)	(. (. / .))	28 29 30
PASTURE (PCI/KG(WET))	NAI GAMMA	ZN-65	3	2.77E+02	< LLD (0 / 3)	(. (. / .))	28 29 30
PASTURE (PCI/KG(WET))	NAI GAMMA	CO-60	3	1.43E+02	< LLD (0 / 3)	(. (. / .))	28 29 30
PASTURE (PCI/KG(WET))	NAI GAMMA	K-40	3	1.53E+03	< LLD (0 / 3)	(. (. / .))	28 29 30

TABLE 21 (Continued)
 RADIOLOGICAL ENVIRONMENTAL MONITORING PROGRAM SUMMARY
 OYSTER CREEK NUCLEAR GENERATING STATION
 MARCH, 1982 THROUGH JUNE 5, 1982
 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
PASTURE (PCI/KG(WET))	NAI GAMMA	BALA-140	3	4.80E+02	< LLD (0 /3)	(. /.)	28 29 30
PASTURE (PCI/KG(WET))	NAI GAMMA	BE-7	3	1.50E+03	4.50E+03 (3 /3) (2.80E+03 - 5.50E+03)	(. /.)	28 29 30
PASTURE (PCI/KG(WET))	NAI GAMMA	CR-51	3	1.60E+03	< LLD (0 /3)	(. /.)	28 29 30
PASTURE (PCI/KG(WET))	NAI GAMMA	RA-226	3	2.10E+02	< LLD (0 /3)	(. /.)	28 29 30
PASTURE (PCI/KG(WET))	NAI GAMMA	I-131	3	8.67E+02	< LLD (0 /3)	(. /.)	28 29 30
PASTURE (PCI/KG(WET))	NAI GAMMA	NA-22	3	1.37E+02	< LLD (0 /3)	(. /.)	28 29 30
PASTURE (PCI/KG(WET))	NAI GAMMA	RU-106	3	1.12E+03	< LLD (0 /3)	(. /.)	28 29 30
PASTURE (PCI/KG(WET))	NAI GAMMA	I-133	3	1.47E+02	< LLD (0 /3)	(. /.)	28 29 30

TABLE 21 (Continued)

RADIOLOGICAL ENVIRONMENTAL MONITORING PROGRAM SUMMARY
OYSTER CREEK NUCLEAR GENERATING STATION
MARCH, 1982 THROUGH JUNE 5, 1982
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
PASTURE (PCI/KG(WET))	NAI GAMMA	CS-137	3	1.33E+02	< LLD (0 /3)	(. / .)	28 29 30
PASTURE (PCI/KG(WET))	STRONTIUM-89		3	1.91E+01	< LLD (0 /3)	(. / .)	28 29 30
PASTURE (PCI/KG(WET))	STRONTIUM-90		3	1.99E+01	1.99E+02 (3 /3) (1.21E+02 - 3.00E+02)	(. / .)	28 29 30
SEDIMENT (PCI/KG(DRY))	GROSS ALPHA		8	3.19E+03	7.02E+03 (5 /7) (4.85E+03 - 1.02E+04)	6.82E+03(1 /1) (6.82E+03 - 6.82E+03)	23 24 25 26 27 32 33
SEDIMENT (PCI/KG(DRY))	GROSS BETA		8	1.71E+03	7.56E+03 (7 /7) (2.12E+03 - 1.47E+04)	1.09E+04(1 /1) (1.09E+04 - 1.09E+04)	23 24 25 26 27 32 33
SEDIMENT (PCI/KG(DRY))	GELI GAMMA	CE-144	26	1.35E+02	3.45E+02 (6 /22) (1.70E+02 - 7.00E+02)	< LLD (0 /4)	23 24 25 26 27 32 33
SEDIMENT (PCI/KG(DRY))	GELI GAMMA	AG-110M	26	2.57E+01	< LLD (0 /22)	< LLD (0 /4)	23 24 25 26 27 32 33
SEDIMENT (PCI/KG(DRY))	GELI GAMMA	TE-129M	26	1.36E+03	< LLD (0 /22)	< LLD (0 /4)	23 24 25 26 27 32 33

TABLE 21 (Continued)
 RADIOLOGICAL ENVIRONMENTAL MONITORING PROGRAM SUMMARY
 OYSTER CREEK NUCLEAR GENERATING STATION
 MARCH, 1982 THROUGH JUNE 5, 1982
 SECOND QUARTER SUMMARY

SAMPLE TYPE	ANALYSIS	ISOTOPE NUMBER	LLD	INDICATOR-MEAN(N/TOTAL) RANGE	BACKGROUND-MEAN(N/TOTAL) RANGE	STATIONS USED FOR INDICATOR MEAN
		OF ANALYSES PERFORMED				
SEDIMENT (PCI/KG(DRY))	GELI GAMMA	ZRNB-95	25	2.28E+01 < LLD (0 /22)	< LLD (0 /3)	23 24 25 26 27 32 33
SEDIMENT (PCI/KG(DRY))	GELI GAMMA	CS-134	26	2.22E+01 < LLD (0 /22)	< LLD (0 /4)	23 24 25 26 27 32 33
SEDIMENT (PCI/KG(DRY))	GELI GAMMA	CO-58	26	2.72E+01 < LLD (0 /22)	< LLD (0 /4)	23 24 25 26 27 32 33
SEDIMENT (PCI/KG(DRY))	GELI GAMMA	MN-54	26	2.30E+01 5.65E+01 (4 /22) (4.50E+01 - 8.40E+01)	< LLD (0 /4)	23 24 25 26 27 32 33
SEDIMENT (PCI/KG(DRY))	GELI GAMMA	TH-232	26	7.09E+01 3.95E+02 (22 /22) (1.80E+02 - 6.80E+02)	2.67E+02 (3 /4) (2.10E+02 - 3.10E+02)	23 24 25 26 27 32 33
SEDIMENT (PCI/KG(DRY))	GELI GAMMA	FE-59	26	7.18E+01 < LLD (0 /22)	< LLD (0 /4)	23 24 25 26 27 32 33
SEDIMENT (PCI/KG(DRY))	GELI GAMMA	CS-136	26	1.47E+02 < LLD (0 /22)	< LLD (0 /4)	23 24 25 26 27 32 33
SEDIMENT (PCI/KG(DRY))	GELI GAMMA	ZN-65	26	5.60E+01 < LLD (0 /22)	< LLD (0 /4)	23 24 25 26 27 32 33

TABLE 21 (Continued)

RADIOLOGICAL ENVIRONMENTAL MONITORING PROGRAM SUMMARY
OYSTER CREEK NUCLEAR GENERATING STATION
MARCH, 1982 THROUGH JUNE 5, 1982
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				
SEDIMENT (PCI/KG(DRY))	GELI GAMMA	CO-60	26	2.91E+01	4.80E+02 (12 /22) (2.50E+01 - 1.60E+03)	< LLD (0 /4)	23 32	24 33	25	26	27
SEDIMENT (PCI/KG(DRY))	GELI GAMMA	K-40	26	2.89E+02	5.66E+03 (19 /22) (6.80E+02 - 1.50E+04)	5.83E+03(3 /4) (5.40E+03 - 6.30E+03)	23 32	24 33	25	26	27
SEDIMENT (PCI/KG(DRY))	GELI GAMMA	BALA-140	26	1.51E+02	< LLD (0 /22)	< LLD (0 /4)	23 32	24 33	25	26	27
SEDIMENT (PCI/KG(DRY))	GELI GAMMA	BE-7	26	2.59E+02	3.67E+02 (3 /22) (2.60E+02 - 5.50E+02)	< LLD (0 /4)	23 32	24 33	25	26	27
SEDIMENT (PCI/KG(DRY))	GELI GAMMA	ZR-95	1	5.80E+01	(. / .) (. - .)	< LLD (0 /1)					
SEDIMENT (PCI/KG(DRY))	GELI GAMMA	NB-95	1	4.50E+01	(. / .) (. - .)	< LLD (0 /1)					
SEDIMENT (PCI/KG(DRY))	GELI GAMMA	SB-125	26	5.62E+01	< LLD (0 /22)	< LLD (0 /4)	23 32	24 33	25	26	27
SEDIMENT (PCI/KG(DRY))	GELI GAMMA	CE-141	26	6.11E+01	< LLD (0 /22)	< LLD (0 /4)	23 32	24 33	25	26	27

Analysis of Data

A statistical analysis incorporating both historical and current REMP data was performed. Values which fell outside of the mean plus two standard deviations were noted. These outlying values, although termed "slightly above normal" environmental levels, are in no way considered to be unusual. Data and environmental pathway comparisons were performed to determine if correlations existed between facility releases and the elevated environmental levels of radioactivity. A discussion of the findings by month follows:

December, 1981

<u>Media</u>	<u>Station</u>	<u>Analysis</u>
Soil	3	Gross Beta
Air Particulate	4	Gross Alpha
Well Water	19	Gross Beta-Suspended
Well Water	20	Gross Beta-Suspended
Well Water	21	Gross Beta-Suspended
Well Water	22	Gross Beta-Suspended

During December, 1981, a slightly higher than normal gross beta activity was detected at soil station 3. The gross beta activities from rain water, air particulate, and vegetation samples collected the same date from the same location did not indicate elevated beta deposition. Prevailing winds during this month were from the ESE, with very little wind toward the East. In addition, pre-operational gross beta activities at this station at times exceeded the level in question. Considering these factors, this elevated concentration is not considered to be facility related.

Also during December, a slightly higher than normal gross alpha activity was detected at air particulate station 4. Prevailing winds during this month were not in the direction of this sampling station.

In addition, the plant was not operational for most of the collection period. On these bases, this elevated result is not considered to be plant related.

Four well water stations, (stations 19, 20, 21, and 22), displayed gross beta-suspended concentrations which were elevated above normal levels. Although slightly higher than normally expected, these concentrations were still less than 7% of the upper limit of gross beta activity permitted by the USEPA (American Public Health Association, 1980). Considering the transport pathway concerned (Groundwater) and the complete absence historically of plant-specific radionuclides in regional groundwaters, these anomalous gross radioactivity measurements are not considered to be plant related.

January, 1982

<u>Media</u>	<u>Station</u>	<u>Analysis</u>
Surface Water	27	Strontium-90
Surface Water	24	Gross Alpha-Suspended

A surface water sample collected from station 27 was found to have an elevated Strontium-90 concentration. Station 27 is located in the fresh water Oyster Creek which is upstream of the OCNGS discharge canal and is considered to be outside the influence of the plant. This elevated result is not considered to be plant related.

A surface water sample collected from station 24 during January, 1982 was analyzed for gross alpha-suspended activity. This concentration was found to be marginally elevated. During the collection period, a minute quantity of alpha activity was released in ten facility liquid releases. This activity, even when diluted by stream flow, does not

account for this elevated result, and is therefore not believed to be facility related.

February, 1982

<u>Media</u>	<u>Station</u>	<u>Analysis</u>
Surface Water	25	Strontium-90
Surface Water	33	Tritium
Well Water	20	Gross Alpha-Dissolved

In February 1982, a Strontium-90 concentration in surface water at station 25 exceeded levels routinely found. During the collection period, eleven facility liquid releases were made. No Strontium-90 activity was detected in any of these releases. On this basis, the elevated result is not considered to be plant related.

A Tritium concentration, observed at surface water station 33, was found to be slightly elevated. During the collection period, eleven liquid releases were made from the OCNGS. The total Tritium released in these releases was summed and diluted by the volume of dilution water. This result added to an average background is far less than the elevated concentration. This elevated result is not considered to be facility related.

A well water sample, from station 20, was found to have a gross alpha-dissolved concentration which was slightly higher than expected. Although elevated, this result was still below the drinking water limits for gross alpha activity as permitted by the USEPA (American Public Health Association, 1980). In addition, the station is considered outside the hydrologic influence of the OCNGS discharge canal. On these bases, this elevated result is not considered to be a result of OCNGS operation.

March, 1982

<u>Media</u>	<u>Station</u>	<u>Analysis</u>
Surface Water	27	Strontium-90
Surface Water	25	Strontium-90
Surface Water	33	Gross Alpha-Suspended
Precipitation	5	Tritium

A surface water Strontium-90 analysis result from station 27 was found to be slightly higher than normal. This station is located in the fresh water Oyster Creek which is upstream of the OCNGS discharge and considered out of the influence of the plant.

In addition, an elevated Strontium-90 activity was detected at surface water station 25. Because no Strontium-90 was detected in the 4 liquid releases that were made during the collection period, this result is not considered to be plant related.

A surface water Strontium-90 analysis result from station 27 was found to be slightly higher than normal. This station is located in the fresh water Oyster Creek which is upstream of the OCNGS discharge canal and considered outside the influence of the plant. This higher than expected result is not a result of facility operation.

In addition, an elevated Strontium-90 activity was detected at surface water station 25. Because no Strontium-90 was detected in the four liquid releases that were made during the collection, this result is not considered to be plant related.

A gross alpha-suspended concentration, from a sample collected at surface water station 33, was slightly higher than expected. During the collection period, one facility liquid release was made. No alpha activity was detected in this release. This result is not considered to be facility related.

A precipitation sample collected at station 5 exhibited a slightly higher than normal concentration of Tritium. Because the OCNGS was not in operation for four months prior to and including the collection period, this elevated result is not considered to be plant related.

April, 1982

<u>Media</u>	<u>Station</u>	<u>Analysis</u>
Air Particulate	3	Be-7
Air Particulate	A	Be-7
Air Particulate	H	Be-7
Well Water	18	Tritium
Well Water	20	Ra-228
Surface Water	23	Strontium-90
Surface Water	24	Strontium-90
Surface Water	31	Strontium-90
Surface Water	27	Strontium-90
Surface Water	23	Gross Alpha-Dissolved
Clams	23	Gross Alpha
Clams	24	Gross Alpha
Clams	25	Gross Alpha
Clams	31	Gross Alpha
Clams	24	Gross Beta
Clams	31	Gross Beta

Three air particulate stations, (stations 3, A, and H) had Beryllium-7 concentrations that were marginally elevated. Stations A and H are background stations considered outside the influence of the plant. In addition, the plant was not operable during the two week collection period. For these reasons, the slightly higher Beryllium-7 concentrations are not considered to be plant related.

A well water sample collected from Station 18 had a Tritium analysis result that was slightly higher than expected. During the collection period three liquid releases were made from the plant. After dilution, the concentration at the offsite boundary, added to an average background concentration, was less than the elevated concentration. In addition,

this well is considered outside the hydrologic influence of the discharge canal. Also, the elevated result is less than 3% of the limit of Tritium permitted by the USEPA (American Public Health Association, 1980). This slightly higher than normal result is not considered to be plant related.

During April, a slightly elevated Radium-228 concentration was found in a sample taken from well water station 20. Considering the transport pathway concerned (groundwater) and the complete absence historically of plant specific radionuclides in regional groundwaters, this higher than expected Radium-228 concentration is not considered to be plant related.

Four surface water Strontium-90 analysis results, from stations 23, 24, 27, and 31, were found to be slightly higher than routinely found. The highest of these results was found at background station 31, which is considered outside the influence of the plant. Because of this, these results are not considered to be plant related.

A surface water sample, collected from station 23, had a marginally elevated gross alpha-dissolved result. During the collection period, three liquid releases were made from the facility. No alpha activity was detected in a liquid release since January 6, 1982. On this basis, this elevated result is not considered to be a result of OCNGS operation.

Four clam stations, (stations 23, 24, 25, and 31), had gross alpha results that were slightly higher than expected. In addition, two clam stations, (stations 24 and 31) had gross beta concentrations that were marginally elevated. In both cases, the concentrations at

the background station 31, were nearly as high as, (or higher than) the concentrations seen at the indicator stations. On this basis the anomalous results are not considered to be plant associated.

May, 1982

<u>Media</u>	<u>Station</u>	<u>Analysis</u>
Air Particulate	A	Be-7

A slightly elevated Be-7 concentration was observed at air particulate station A. This station is a background station considered outside the influence of the plant. On this basis, this higher than expected result is not considered to be facility related.

Radiological Impact On Man

Environmental monitoring results for the scheduled collection period December, 1981 through May, 1982 indicate that intakes of isotopes in the vicinity of Oyster Creek did not exceed 1% of the intakes equivalent to exposure to concentrations in 10 CFR 20, Appendix B, Table II.

Two principal exposure pathways, inhalation and ingestion, are available to gaseous and liquid effluent isotopes, respectively. Although many isotopes measured in environmental media can be attributed to both natural sources and nuclear weapons fallout, it was conservatively assumed for this analysis that environmental levels were due to Oyster Creek effluents.

Evaluation of intakes via the inhalation pathway was done using air particulate and air iodine analysis results. Concentrations exceeded minimum detectable levels for only a few isotopes in only a few samples. To be conservative, concentrations less than the detectable limit were assumed to be positive results. Intakes due to inhalation were far below 1% of intakes equivalent to exposure to concentrations in 10 CFR 20, Appendix B, Table II.

Intakes from the ingestion pathway were examined using results of analyses on clams. Consumption of shellfish in the vicinity of Oyster Creek is the principle means of exposure to radionuclides from liquid effluents. Analyses showed concentrations in clams at or below minimum detectable levels. As was done with the inhalation pathway, all results were conservatively assumed to be positive. Using this methodology, intakes from clams did not exceed 1% of those equivalent to exposure to concentrations in 10 CFR 20, Appendix B, Table II.

It should be noted that a second ingestion pathway is available to gaseous effluents via deposition on terrestrial food products such as vegetables. However, because this mode of nuclide transport exists only during growing season months, it was not examined for the reporting period.

The doses one would receive from intakes if exposed to 1% of the concentrations in 10 CFR 20, Appendix B, Table II, would be 5 mrem/year for the whole body and 15 mrem/year to any organ (bone and thyroid 30 mrem/year as outlined in ICRP 2). The USEPA regulation 40 CFR 190 requires that doses to any real person from uranium fuel cycle activities (including nuclear power plants) will not exceed 25 mrem/year for the whole body and other organs, with the exception of 75 mrem/year for the thyroid. Since levels in environmental media resulted in exposure to concentrations far less than 1% of those in 10 CFR 20, Appendix B, Table II, dose limits were also well below those of 40 CFR 190.

In conclusion, exposure from all available pathways were well below the limits of both 10 CFR 20 and 40 CFR 190 for the reporting period.

IV. REFERENCES

REFERENCES

American Public Health Organization. 1980, Standard Methods for the Examination of Water and Waste Water. 15th Edition, page 574.