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OYSTER CREEK NUCLEAR GENERATING STATION

EFFLUENT RELEASE REPORT

1984-1

SUMMARY

OYSTER CREEK NUCLEAR GENERATING STATION

1984-1 SEMIANNUAL EFFLUENT RELEASE REPORT

The Semiannual Effluent Release Report is submitted to the United States Nuclear Regulatory Commission (NRC) every six months in accordance with the Oyster Creek Nuclear Generating Station (OCNGS) Technical Specifications. It summarizes the radioactive liquid and gaseous effluents released and solid radioactive wastes shipped from the OCNGS. In addition, it describes the results of environmental measurements undertaken to assess the effects, if any, of such radioactive releases to the environment. Samples were collected of environmental media such as air, aquatic sediment, surface water, well water, soil, precipitation, vegetation, and shellfish. These media are sampled on a routine basis at semimonthly, monthly and/or quarterly frequencies at 37 locations. The annual magnitude of effort to collect and analyze the environmental samples is in excess of four man years 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 50 of the Code of Federal Regulations which are considered by the NRC to be acceptable limits to protect the health and welfare of the public.

For clarity, the report is organized into three parts. Section I provides a summary of plant operations for the reporting period. The reactor was shutdown during the entire period of December 1983 through June 1984.

Section II summarizes the meteorological data and effluents released from the facility for the reporting period. It itemizes gaseous releases of 1.11 curies of Tritium and $7.69\text{E-}4$ curies of particulate radioactivity. No fission and activation gas activity or non-particulate halogen activity was detected in gaseous releases. In addition, $1.43\text{E-}3$ curies of fission and activation products and 5.60 curies of Tritium were released in 32 batch liquid releases. No dissolved gaseous activity was detected in liquid releases during the period. Section II also itemizes $4.07\text{E}4$ curies of radioactivity, contained in $6.00\text{E}2$ cubic meters of waste, which was shipped offsite in 46 shipments. 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 federal regulatory requirements of OCNCS Technical Specifications.

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 for the reporting period. Natural radioactivity and weapons 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 NRC 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 operating status from December 1, 1983 through June 30, 1984. As evident from the Summary, the reactor was shutdown throughout the reporting period.

Section II follows the format of USNRC Regulatory Guide 1.21 for the provision of summaries of OCNCS gaseous effluents, liquid effluents and solid waste offsite shipments. In addition, this section provides information on meteorological data for the reporting period of January 1, 1984 through June 30, 1984. 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 wind roses.

Section III provides a summary of the Oyster Creek Radiological Environmental Monitoring Program and its associated sampling data for the reporting period of December, 1983 through May, 1984 as required by section 4.6.B(3) of the Technical Specifications - Appendix A.

Radiological Environmental data are presented as recommended in proposed USNRC Regulatory Guide 4.8. This section also relates plant effluent releases to radiological environmental data.

PLANT OPERATIONS SUMMARY

December 1, 1983	Reactor Shutdown
December 15, 1983	Reactor Shutdown
December 31, 1983	Reactor Shutdown
January 15, 1984	Reactor Shutdown
January 31, 1984	Reactor Shutdown
February 15, 1984	Reactor Shutdown
February 29, 1984	Reactor Shutdown
March 15, 1984	Reactor Shutdown
March 31, 1984	Reactor Shutdown
April 15, 1984	Reactor Shutdown
April 30, 1984	Reactor Shutdown
May 15, 1984	Reactor Shutdown
May 31, 1984	Reactor Shutdown
June 15, 1984	Reactor Shutdown
June 30, 1984	Reactor Shutdown

II. EFFLUENT AND WASTE DISPOSAL SUMMARY

EFFLUENT AND WASTE DISPOSAL SUMMARY

A. Gaseous Effluents

During the reporting period, January 1, 1984 through June 30, 1984, no fission and activation gases, no non-particulate halogens (iodines) with half-lives greater than eight days, $7.69\text{E-}4$ curies of particulates with half-lives greater than eight days, and 1.11 curies of tritium were released. The maximum hourly release rate of gross activity from the stack monitor was at background due to the reactor being shutdown during the entire period. The airborne releases are summarized in Tables 1A through 1C.

B. Liquid Effluents

A total of $8.39\text{ E}6$ liters of water was processed through the radwaste system. Of this, $2.15\text{ E}6$ liters containing 5.60 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 $1.16\text{E-}8$ microcuries per milliliter on February 21, 1984. The liquid releases are summarized in Tables 2A and 2B.

C. Solid

During the reporting period, a total volume of $6.00\text{ E}2$ cubic meters of solid waste containing $4.07\text{ E}4$ curies of radioactivity was shipped off site in 46 shipments. No irradiated fuel was shipped. The solid waste shipments are summarized in Table 3.

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 are summarized. Also included are cumulative wind roses for 10 meter (33 feet) and 116 meter (380 feet) elevations. The meteorological data are summarized in Tables 4 through 9.

EFFLUENT AND WASTE DISPOSAL SEMIANNUAL REPORT

SUPPLEMENTAL INFORMATION

FACILITY - Oyster Creek Nuclear Generating Station

LICENSEE - Owner - Jersey Central Power & Light Company

Operator - General Public Utilities Nuclear Corporation

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.A.2

$$4 \text{ uCi/sec}$$

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 - Shutdown

2. Second Quarter - Shutdown

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 nuclides detected are listed below)

Unit - uCi/ml

H-3	3 E-3	Co-60	5 E-5
-----	-------	-------	-------

3. Average Energy

a. First Quarter - Shutdown

b. Second Quarter - Shutdown

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.

c. Particulates:

Semi-weekly sample analysis using gamma ray spectrometry with a GeLi Detector, low background 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 estimated and 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. 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 - 24 releases
 - b. Second Quarter - 8 releases
2. Total time period for batch releases:
 - a. First Quarter - 3.16 E3 minutes
 - b. Second Quarter - 8.79 E2 minutes
3. Maximum time period for a batch release:
 - a. First Quarter - 1.85 E2 minutes
 - b. Second Quarter - 1.56 E2 minutes
4. Average time period for a batch release:
 - a. First Quarter - 1.32 E2 minutes
 - b. Second Quarter - 1.10 E2 minutes
5. Minimum time period for a batch release:
 - a. First Quarter - 3.8 E1 minutes
 - b. Second Quarter - 3.7 E1 minutes
6. Average stream flow during periods of release of effluent in a flowing stream:
 - a. First Quarter - 1.97 E6 liters/minute
 - b. Second Quarter - 1.97 E6 liters/minute

6. Abnormal Releases

a. Liquid

1. Number of releases:

None

2. Total activity released:

Not Applicable

b. Gaseous

1. Number of releases:

None

2. Total activity released:

Not Applicable

TABLE 1A
EFFLUENT AND WASTE DISPOSAL SEMIANNUAL REPORT 1984-1
GASEOUS EFFLUENTS-SUMMATION OF ALL RELEASES

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

A. Fission & activation gases

1. Total release	Ci	< LLD	< LLD	-
2. Average release rate for period	uCi/sec	-	-	
3. Percent of Tech Spec limit	%	-	-	

B. Iodines

1. Total Iodine-131	Ci	< LLD	< LLD	2.5 E1
2. Average release rate for period	uCi/sec	-	-	
3. Percent of Tech Spec limit*	%	-	-	

C. Particulates

Particulates with				
1. half-lives > 8 days	Ci	6.67 E-4	1.02 E-4	2.5 E1
2. Average release rate for period	uCi/sec	8.50 E-5	1.30 E-5	
3. Percent of Tech Spec limit*	%	2.13 E-3	3.25 E-4	
4. Gross alpha radioactivity	Ci	8.71 E-6	8.84 E-6	

D. Tritium

1. Total release	Ci	6.36 E-1	4.73 E-1	4.0 E1
2. Average release rate for period	uCi/sec	8.10 E-2	6.03 E-2	

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

TABLE 1B
EFFLUENT AND WASTE DISPOSAL SEMIANNUAL REPORT 1984-1
GASEOUS EFFLUENTS-ELEVATED RELEASE

CONTINUOUS MODE

Nuclides Released	Unit	First Quarter	Second Quarter	LLD uCi/cc
1. Fission gases				
Krypton-85m	Ci	< LLD	< LLD	3.34 E-8
Krypton-87	Ci	< LLD	< LLD	9.13 E-8
Krypton-88	Ci	< LLD	< LLD	1.39 E-7
Xenon-133	Ci	< LLD	< LLD	1.40 E-7
Xenon-135	Ci	< LLD	< LLD	3.28 E-8
Xenon-135m	Ci	< LLD	< LLD	6.83 E-8
Xenon-138	Ci	< LLD	< LLD	1.81 E-7
others				
Krypton-89	Ci	< LLD	< LLD	1.07 E-6
Xenon-133m	Ci	< LLD	< LLD	3.03 E-7
Xenon-137	Ci	< LLD	< LLD	6.00 E-7
Total for period	Ci	< LLD	< LLD	
2. Iodines				
Iodine-131	Ci	< LLD	< LLD	1.17 E-13
Iodine-133	Ci	< LLD	< LLD	1.48 E-13
Iodine-135	Ci	< LLD	< LLD	1.01 E-12
Total for period	Ci	< LLD	< LLD	

[illegible]

TABLE 1C
EFFLUENT AND WASTE DISPOSAL SEMIANNUAL REPORT 1984-1
GASEOUS EFFLUENTS-GROUND LEVEL RELEASE

Nuclides Released	Unit	First Quarter	Second Quarter	LLD uCi/cc
1. Fission Gases				
TOTAL	Ci	< LLD	< LLD	
2. Iodines				
Iodine-131	Ci	< LLD	< LLD	2.05 E-14
Iodine-133	Ci	< LLD	< LLD	2.41 E-14
Iodine-135	Ci	< LLD	< LLD	4.51 E-14
TOTAL	Ci	< LLD	< LLD	
3. Particulates				
Strontium-89	Ci	< LLD	< LLD	2.15 E-16
Strontium-90	Ci	< LLD	< LLD	5.23 E-17
Cesium-134	Ci	< LLD	< LLD	2.80 E-14
Cesium-137	Ci	< LLD	< LLD	3.60 E-14
Barium-140	Ci	< LLD	< LLD	7.11 E-14
Lanthanum-140	Ci	< LLD	< LLD	1.75 E-14
TOTAL	Ci	< LLD	< LLD	
NO OTHER NUCLIDES IDENTIFIED				

TABLE 2A
EFFLUENT AND WASTE DISPOSAL SEMIANNUAL REPORT 1984-1
LIQUID EFFLUENTS-SUMMATION OF ALL RELEASES

	Unit	First Quarter	Second Quarter	Est. Total Error %
A. Fission & activation gases				
1. Total releases (not including tritium, gases, alpha)	Ci	1.43 E-3	< LLD	3.0 E1
2. Average diluted concentration during period	uCi/ml	2.29 E-10	-	
3. Percent of applicable limit	%	4.58 E-4	-	
B. Tritium				
1. Total release	Ci	4.54	1.06	3.0 E1
2. Average diluted concentration during period	uCi/ml	7.26 E-7	1.70 E-7	
3. Percent of applicable limit	%	2.42 E-2	1.08 E-2	
C. Dissolved and entrained gases				
1. Total release	Ci	< LLD	< LLD	3.0 E1
2. Average diluted concentration during period	uCi/ml	-	-	
3. Percent of applicable limit	%	-	-	
D. Gross alpha radioactivity				
1. Total release	Ci	7.47 E-6	< LLD	3.0 E1
E. Volume of waste released (prior to dilution)				
	liters	1.65 E6	4.98 E5	1.0 E1
F. Volume of dilution water used during period				
	liters	2.35 E10	1.23 E10	1.0 E1

TABLE 2B
EFFLUENT AND WASTE DISPOSAL SEMIANNUAL REPORT 1984-1
LIQUID EFFLUENTS

BATCH MODE					
Nuclides Released	Unit	First Quarter	Second Quarter		LLD uCi/ml
Strontium-89	Ci	< LLD	< LLD		3.05 E-8
Strontium-90	Ci	< LLD	< LLD		6.51 E-9
Cesium-134	Ci	< LLD	< LLD		2.29 E-7
Cesium-137	Ci	< LLD	< LLD		4.32 E-7
Iodine-131	Ci	< LLD	< LLD		1.50 E-7
Cobalt-58	Ci	< LLD	< LLD		2.78 E-7
Cobalt-60	Ci	1.43 E-3	< LLD		6.04 E-7
Iron-59	Ci	< LLD	< LLD		6.62 E-7
Zinc-65	Ci	< LLD	< LLD		4.49 E-7
Manganese-54	Ci	< LLD	< LLD		4.13 E-7
Chromium-51	Ci	< LLD	< LLD		1.66 E-7
Zirconium-95	Ci	< LLD	< LLD		2.89 E-7
Niobium-95	Ci	< LLD	< LLD		5.91 E-8
Molybdenum-99	Ci	< LLD	< LLD		2.49 E-6
Technetium-99m	Ci	< LLD	< LLD		2.16 E-7
Barium-140	Ci	< LLD	< LLD		1.20 E-6
Lanthanum-140	Ci	< LLD	< LLD		4.85 E-7
Cerium-141	Ci	< LLD	< LLD		3.23 E-7
NO OTHER NUCLIDES IDENTIFIED					
TOTAL FOR PERIOD	Ci	1.43 E-3	< LLD		
Xenon-133	Ci	< LLD	< LLD		4.06 E-7
Xenon-135	Ci	< LLD	< LLD		1.73 E-7
NO OTHER NUCLIDES IDENTIFIED					
TOTAL FOR PERIOD	Ci	< LLD	< LLD		

TABLE 3
EFFLUENT AND WASTE DISPOSAL SEMIANNUAL REPORT 1984-1
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	1.23 E2 5.48 E2	5.0 E1
b. Dry compressible waste, contaminated equip., etc.	m ³ Ci	4.74 E2 2.13 E1	5.0 E1
c. Irradiated components, control rods, etc.	m ³ Ci	2.96 4.01 E4	5.0 E1
d. Other (describe)	m ³ Ci	None	-

2. Estimate of major nuclide composition (by type of waste)	Percentage	Activity(Ci)	LLD (uCi/cc)
a. Cobalt-60	8.20 E1	4.49 E2	9.51 E-5
Manganese-54	5.19	2.84 E1	7.39 E-5
Cesium-137	4.42	2.42 E1	7.48 E-5
Carbon-14	3.07	1.68 E1	5.00 E-6
Strontium-90	1.41	7.73	3.00 E-6
b. Cobalt-60	8.85 E1	1.89 E1	
Manganese-54	5.04	1.07	
Cesium-137	4.31	9.18 E-1	
Plutonium-241	1.05	2.24 E-1	
Carbon-14	6.48 E-1	1.38 E-1	
c. Iron-55	5.13 E1	2.06 E4	
Cobalt-60	3.06 E1	1.23 E4	
Hydrogen-3	1.12 E1	4.49 E3	
Nickel-59	4.32	1.73 E3	
Manganese-54	2.21	8.86 E2	
d.			

3. Solid Waste Disposition		
Number of Shipments	Mode of Transportation	Destination
42	Motor Vehicle	Barnwell, SC
4	Motor Vehicle	Richland, WA

B. Irradiated Fuel Shipments (Disposition)

Number of Shipments	Mode of Transportation	Destination
None	-	-

Meteorological Data

Abstract

The Oyster Creek Nuclear Generating Station obtains meteorological data from the site meteorological instrument tower (Figure 1). The tower is 400 feet tall and located approximately west-northwest of the site at a distance of 2529 feet from the stack. The following instrumentation is located on the tower:

HEIGHT OF INSTRUMENT ABOVE GROUND	INSTRUMENT
33 feet (10 meters)	Wind Speed Wind Direction Temperature Dew Point
150 feet (46 meters)	Wind Speed Wind Direction Temperature
380 feet (116 meters)	Wind Speed Wind Direction Temperature Dew Point

There are redundant wind speed, wind direction, and temperature sensors at the 33 and 380 foot levels to insure an efficient percentage of data recovery and to comply with regulatory requirements. In

addition, a processor calculates temperature differentials (ΔT) between (150-33) and (380-33)-foot levels. These data are then stored in the on-site computer and are used to determine atmospheric stability and, in turn, atmospheric dispersion. In addition, the 380-foot level wind speed and wind direction and the (380-33)-foot level temperature differential is monitored and recorded at the Oyster Creek Control Room.

The meteorological tower sensors, chart recorders, and processors are calibrated four times a year, according to the draft NRC Regulatory Guide 1.23. Periodic tower inspections are done to insure maximum data integrity. The average data recovery is 95% for the six month period from January through June of 1984 (Table 9). Meteorological data are an integral part of the off-site dose assessment program. Occasionally lower percentages of data recovery, as in the months of January and June, are the result of sensor, computer hardware, and/or chart recorder malfunctions.

Data Analysis

For the first half of the reporting period (January through March) the predominant wind direction is from the northwest (Figures 2 and 3). ~~This is to be expected as the winter months are dominated by the Canadian~~ air masses. For the second half of the period (April through June) the predominant wind directions are from the northwest, southwest and south (Figures 4 and 5).

Four of six months were characterized by higher than average monthly precipitation (Figure 6). The average monthly precipitation amounts for Atlantic City (ACY) are also shown. Atlantic City is the closest and

most accurate first order National Weather Service Station. Recent studies have shown similarities in hourly meteorological readings between it and Oyster Creek. Highlights included the May and February maximums and a major late-March storm that resulted in 1.71 inches of precipitation. The precipitation was predominantly the result of extratropical storms more commonly referred to as "northeasters". These storms are the result of a very active jet stream, the common area of origin of mid-latitude storms. The total amount of precipitation for the period was 25.31 inches. The normal six-month Oyster Creek rainfall is 21 inches. Rainfall during June was below normal. Precipitation events during the month of June were primarily due to air mass thundershower activity. This relatively heavier intensity precipitation will yield the greatest particulate fallout (washout) from the atmosphere. Rainfall activity was suppressed due to the stabilizing effect of the sea breeze, common in the month of June and throughout the summer. It is common for the showers to build up to the west, move east-northeast, but become stagnant and eventually decay up to 15 miles inland due to the highly stable sea breeze.

FIGURE 1
GPU NUCLEAR CORPORATION
OYSTER CREEK NUCLEAR GENERATING STATION

METEOROLOGICAL DATA:
SCHEMATIC DIAGRAM
OF
SYSTEM COMPONENTS AND INFORMATION FLOW

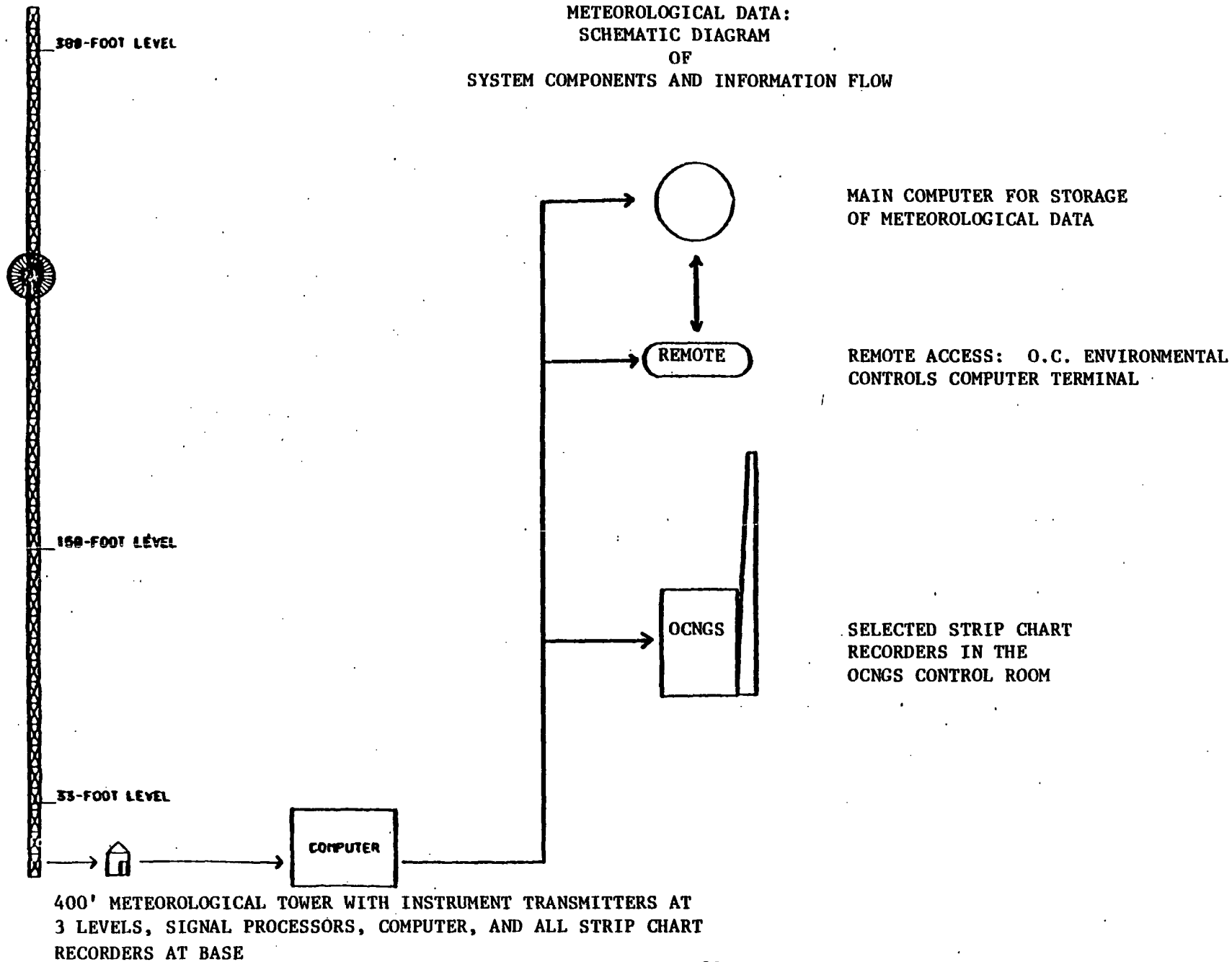


TABLE 4
METEOROLOGICAL CLASSIFICATIONS OF ATMOSPHERIC STABILITY

Stability Classification	Pasquill Categories	$\sigma\theta^1$ (degrees)	Temperature Change With Height ($^{\circ}\text{F}/100\text{ ft}$)
Extremely Unstable	A	25.0	-1.0
Moderately Unstable	B	20.0	-1.0 to -0.9
Slightly Unstable	C	15.0	-0.9 to -0.8
Neutral	D	10.0	-0.8 to -0.3
Slightly Stable	E	5.0	-0.3 to 0.8
Moderately Stable	F	2.5	0.8 to 2.2
Extremely Stable	G	1.7	2.2

¹ 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 5

Oyster Creek Meteorological Tower Joint Frequency Tables of Wind Speed and
Wind Direction 33 ft versus Delta Temperature 150-33 ft for the
Period 1/1/84 - 3/31/84

SITE OYSTER CREEK

HOURS AT EACH WIND SPEED AND DIRECTION
PERIOD OF RECORD - 84010101-84033124
STABILITY CLASS - A DT/DZ
ELEVATION SPEED: SPD33A DIRECTION: DIR33A LAPSE: DT150

WIND DIRECTION	WIND SPEED (MPH)						TOTAL
	1-3	4-7	8-12	13-16	16-24	>24	
N	1	13	3	1	0	0	18
NNE	2	10	4	4	4	0	24
NE	0	0	3	3	0	0	22
ENE	0	6	7	0	1	0	14
E	1	0	3	1	1	0	15
ESE	1	11	7	2	0	0	21
SE	1	7	14	0	0	0	22
SSE	0	1	11	2	0	0	14
S	0	0	1	2	1	0	4
SSW	0	2	3	1	0	0	6
SW	0	1	1	2	1	0	5
WSW	1	6	0	3	0	3	21
W	1	0	14	13	1	0	38
WNW	0	7	23	17	1	0	48
NW	0	5	30	31	6	6	87
NNW	3	7	20	6	2	0	38
TOTAL	11	102	161	88	26	0	307

PERIODS OF CALM (HOURS) 8
VARIABLE DIRECTION 6
HOURS OF MISSING DATA 106

SITE OYSTER CREEK

HOURS AT EACH WIND SPEED AND DIRECTION
PERIOD OF RECORD - 84010101-84033124
STABILITY CLASS - B DT/DZ
ELEVATION SPEED: SPD33A DIRECTION: DIR33A LAPSE: DT150

WIND DIRECTION	WIND SPEED (MPH)						TOTAL
	1-3	4-7	8-12	13-16	16-24	>24	
N	0	3	3	0	0	0	6
NNE	0	2	2	0	0	0	4
NE	1	6	0	1	0	0	8
ENE	3	2	3	1	0	0	9
E	2	3	0	1	0	0	6
ESE	1	0	2	2	0	0	14
SE	1	4	3	0	0	0	8
SSE	2	1	1	0	0	0	4
S	2	5	3	2	1	0	13
SSW	0	0	3	1	0	1	5
SW	1	2	1	0	0	0	4
WSW	2	5	2	1	0	2	12
W	2	1	1	6	0	0	10
WNW	0	10	5	7	0	0	22
NW	4	6	7	2	1	0	20
NNW	1	7	5	0	0	0	13
TOTAL	22	66	41	24	2	3	158

PERIODS OF CALM (HOURS) 8
VARIABLE DIRECTION 6
HOURS OF MISSING DATA 106

Table 5 - Continued

SITE: OYSTER CREEK

HOURS AT EACH WIND SPEED AND DIRECTION
 PERIOD OF RECORD - 84010101-84033124
 STABILITY CLASS C DT/DZ
 ELEVATION SPEED SPD33A DIRECTION DIR33A LAPSE DT150

WIND DIRECTION	WIND SPEED (MPH)						TOTAL
	1-3	4-7	8-12	13-18	19-24	>24	
N	0	2	0	0	0	0	2
NNE	0	1	3	0	0	0	4
NE	0	1	0	1	0	0	2
ENE	0	1	1	2	0	0	4
E	0	3	2	2	0	0	7
ESE	1	1	2	0	1	0	5
SE	1	2	0	0	0	0	3
SSE	0	3	1	0	0	0	4
S	1	0	0	0	0	0	1
SSW	1	0	0	0	0	2	3
SW	0	0	1	0	0	0	1
WSW	2	2	0	1	0	0	5
W	2	2	0	1	0	1	6
WNW	4	6	1	0	0	0	11
NW	1	3	3	1	0	0	8
NNW	1	2	4	0	0	0	7
TOTAL	14	20	10	8	1	3	73

PERIODS OF CALM (HOURS) 8
 VARIABLE DIRECTION 3
 HOURS OF MISSING DATA 106

SITE: OYSTER CREEK

HOURS AT EACH WIND SPEED AND DIRECTION
 PERIOD OF RECORD - 84010101-84033124
 STABILITY CLASS D DT/DZ
 ELEVATION SPEED SPD33A DIRECTION DIR33A LAPSE DT150

WIND DIRECTION	WIND SPEED (MPH)						TOTAL
	1-3	4-7	8-12	13-18	19-24	>24	
N	5	10	7	1	0	0	32
NNE	5	24	20	0	0	0	49
NE	3	13	24	0	1	0	40
ENE	2	7	10	5	4	6	34
E	2	4	0	0	3	0	17
ESE	0	2	11	2	0	0	15
SE	1	0	13	1	0	0	24
SSE	2	6	4	2	0	0	14
S	3	1	0	4	0	0	16
SSW	3	0	0	2	0	1	24
SW	3	2	4	2	1	0	12
WSW	4	6	11	3	0	0	24
W	11	12	0	0	0	1	41
WNW	12	24	37	11	1	1	86
NW	16	28	34	2	1	0	81
NNW	10	10	10	1	1	0	41
TOTAL	82	105	210	52	12	0	559

PERIODS OF CALM (HOURS) 8
 VARIABLE DIRECTION 28
 HOURS OF MISSING DATA 106

Table 5 - Continued

SITE: OYSTER CREEK

HOURS AT EACH WIND SPEED AND DIRECTION
 PERIOD OF RECORD - 84010101-84033124
 STABILITY CLASS E DT/DZ
 ELEVATION SPEED: SPD33A DIRECTION: DIR33A LAPSE: DT150

WIND DIRECTION	WIND SPEED (MPH)						TOTAL
	1-3	4-7	8-12	13-18	19-24	>24	
N	1	4	0	0	0	0	5
NNE	4	1	2	1	0	0	8
NE	1	4	0	1	2	0	8
ENE	0	4	2	3	0	0	9
E	5	2	2	0	0	0	9
ESE	2	2	1	0	0	0	5
SE	1	4	1	0	1	0	7
SSE	3	7	6	1	0	0	17
S	1	17	11	3	0	0	32
SSW	4	0	12	2	0	0	27
SW	6	22	1	0	0	0	29
WSW	7	28	5	0	0	0	40
W	0	17	5	0	0	0	31
WNW	12	34	13	3	0	0	62
NW	12	30	10	4	4	0	60
NNW	8	17	4	4	1	0	34
TOTAL	76	202	83	22	8	0	391

PERIODS OF CALM (HOURS): 8
 VARIABLE DIRECTION: 10
 HOURS OF MISSING DATA: 106

SITE: OYSTER CREEK

HOURS AT EACH WIND SPEED AND DIRECTION
 PERIOD OF RECORD - 84010101-84033124
 STABILITY CLASS F DT/DZ
 ELEVATION SPEED: SPD33A DIRECTION: DIR33A LAPSE: DT100

WIND DIRECTION	WIND SPEED (MPH)						TOTAL
	1-3	4-7	8-12	13-18	19-24	>24	
N	2	0	0	0	0	0	2
NNE	1	0	0	0	0	0	1
NE	1	0	0	0	0	0	1
ENE	0	0	0	0	0	0	0
E	2	1	0	0	0	0	3
ESE	2	1	0	0	0	0	3
SE	1	0	0	0	0	0	1
SSE	3	4	2	0	0	0	9
S	2	4	0	0	0	0	6
SSW	7	5	3	0	0	0	15
SW	0	13	10	0	0	0	32
WSW	5	24	1	0	0	0	30
W	0	21	3	0	0	0	33
WNW	2	11	4	1	0	0	18
NW	0	7	4	0	0	0	20
NNW	6	7	0	0	0	0	13
TOTAL	61	98	27	1	0	0	187

PERIODS OF CALM (HOURS): 8
 VARIABLE DIRECTION: 6
 HOURS OF MISSING DATA: 106

Table 5 - Continued

SITE OYSTER CREEK

HOURS AT EACH WIND SPEED AND DIRECTION
 PERIOD OF RECORD = 04010101-04033124
 STABILITY CLASS: G DT/DZ
 ELEVATION: SPEED SPD33A DIRECTION DIR33A LAPSE DT150

WIND DIRECTION	WIND SPEED(MPH)						TOTAL
	1-3	4-7	8-12	13-18	19-24	>24	
N	2	0	0	0	0	0	2
NNE	0	0	0	0	0	0	0
NE	4	0	0	0	0	0	4
ENE	2	1	0	0	0	0	3
E	5	0	0	0	0	0	5
ESE	1	1	0	0	0	0	2
SE	1	1	0	0	0	0	2
SSE	5	1	0	0	0	0	6
S	6	2	0	0	0	0	8
SSW	5	3	1	0	0	0	9
SW	0	6	0	0	0	0	15
WSW	11	24	0	0	0	0	35
W	17	20	1	0	0	0	47
WNW	21	17	0	3	0	0	41
NW	10	10	0	0	0	0	20
NNW	12	4	0	0	0	0	16
TOTAL	110	90	2	3	0	0	223

PERIODS OF CALM(HOURS) 0
 VARIABLE DIRECTION 11
 HOURS OF MISSING DATA 106

SITE OYSTER CREEK

HOURS AT EACH WIND SPEED AND DIRECTION
 PERIOD OF RECORD = 04010101-04033124
 STABILITY CLASS: ALL DT/DZ
 ELEVATION: SPEED SPD33A DIRECTION DIR33A LAPSE DT150

WIND DIRECTION	WIND SPEED(MPH)						TOTAL
	1-3	4-7	8-12	13-18	19-24	>24	
N	11	41	13	2	0	0	67
NNE	12	30	31	5	4	0	82
NE	10	32	27	14	11	0	94
ENE	7	21	23	11	5	0	73
E	17	22	15	4	4	0	62
ESE	0	27	23	6	1	0	55
SE	7	27	31	1	1	0	67
SSE	15	23	25	5	0	0	68
S	15	20	23	11	2	0	80
SSW	20	20	31	6	0	4	80
SW	20	46	10	4	2	0	80
WSW	32	06	27	0	0	0	167
W	51	01	33	20	1	2	208
WNW	51	100	03	42	2	1	298
NW	60	00	105	40	12	6	312
NNW	41	63	43	11	4	0	162
TOTAL	385	781	551	100	40	24	1080

PERIODS OF CALM(HOURS) 0
 VARIABLE DIRECTION 62
 HOURS OF MISSING DATA 106

TABLE 6

Oyster Creek Meteorological Tower Joint Frequency Tables of Wind Speed and
Wind Direction 33 ft versus Delta Temperature 150-33 ft for the
Period 4/1/84 - 6/30/84

SITE: OYSTER CREEK

PERIOD OF RECORD = 04040101-04063024
STABILITY CLASS A DT/DZ
ELEVATION SPEED SPD33A DIRECTION DIR33A LAPSE DT150

WIND DIRECTION	WIND SPEED(MPH)						TOTAL
	1-3	4-7	8-12	13-18	19-24	>24	
N	1	0	10	0	0	0	20
NNE	1	12	5	1	0	0	19
NE	0	12	6	0	0	0	18
ENE	0	21	16	0	0	0	37
E	0	17	20	0	0	0	37
ESE	0	31	22	0	0	0	53
SE	0	28	32	4	0	0	64
SSE	1	18	10	11	0	0	41
S	0	7	25	48	2	0	82
SSW	0	12	20	13	1	0	54
SW	0	7	10	0	0	0	26
WSW	1	0	17	5	0	0	32
W	0	0	35	0	0	0	53
WNW	2	13	40	7	0	0	71
NW	2	17	38	10	1	0	68
NNW	3	16	31	2	1	0	53
TOTAL	11	230	364	110	5	0	720

PERIODS OF CALM(HOURS): 11
VARIABLE DIRECTION 3
HOURS OF MISSING DATA 75

SITE: OYSTER CREEK

PERIOD OF RECORD = 04040101-04063024
STABILITY CLASS B DT/DZ
ELEVATION SPEED SPD33A DIRECTION DIR33A LAPSE DT150

WIND DIRECTION	WIND SPEED(MPH)						TOTAL
	1-3	4-7	8-12	13-18	19-24	>24	
N	1	4	0	0	0	0	5
NNE	0	0	5	0	0	0	14
NE	0	4	2	0	0	0	6
ENE	1	4	2	1	0	0	8
E	1	5	5	0	0	0	11
ESE	0	4	4	0	1	0	9
SE	1	4	2	2	2	0	11
SSE	0	3	6	2	0	0	11
S	0	6	7	1	1	0	15
SSW	1	1	4	7	0	0	13
SW	0	4	1	0	0	0	5
WSW	0	1	2	0	0	0	3
W	0	0	0	1	0	0	1
WNW	0	7	4	1	0	0	12
NW	0	3	4	0	0	0	7
NNW	0	4	5	1	0	0	10
TOTAL	5	72	61	16	4	0	158

PERIODS OF CALM(HOURS): 11
VARIABLE DIRECTION 2
HOURS OF MISSING DATA 75

Table 6 - Continued

SITE: OYSTER CREEK

HOURS AT EACH WIND SPEED AND DIRECTION
 PERIOD OF RECORD = 84040101-84063024
 STABILITY CLASS: C DT/DZ
 ELEVATION SPEED SPD33A DIRECTION DIR33A LAPSE DT150

WIND DIRECTION	WIND SPEED(MPH)						TOTAL
	1-3	4-7	8-12	13-18	19-24	>24	
N	1	1	0	0	0	0	2
NNE	2	1	0	0	0	0	3
NE	2	2	2	0	0	0	6
ENE	0	1	1	0	0	0	2
E	0	0	3	0	0	0	3
ESE	0	0	2	0	0	0	2
SE	2	1	1	2	0	0	6
SSE	0	5	0	2	0	0	7
S	1	5	1	2	0	0	9
SSW	0	2	2	0	0	0	4
SW	0	0	0	0	0	0	0
WSW	0	2	0	1	0	0	3
W	1	3	3	0	0	0	7
WNW	5	4	1	0	0	0	10
NW	0	1	0	0	0	0	1
NNW	0	0	0	0	0	0	0
TOTAL	14	20	16	7	0	0	65

PERIODS OF CALM(HOURS): 11
 VARIABLE DIRECTION: 2
 HOURS OF MISSING DATA: 75

SITE: OYSTER CREEK

HOURS AT EACH WIND SPEED AND DIRECTION
 PERIOD OF RECORD = 84040101-84063024
 STABILITY CLASS: D DT/DZ
 ELEVATION SPEED SPD33A DIRECTION DIR33A LAPSE DT150

WIND DIRECTION	WIND SPEED(MPH)						TOTAL
	1-3	4-7	8-12	13-18	19-24	>24	
N	4	1	1	0	0	0	6
NNE	2	11	5	0	0	0	18
NE	4	10	13	0	0	0	27
ENE	5	6	4	0	0	0	15
E	5	11	8	1	0	0	25
ESE	1	7	0	5	0	0	21
SE	4	15	1	2	2	0	24
SSE	2	15	7	1	5	0	29
S	5	24	30	21	0	0	80
SSW	1	20	30	17	0	0	68
SW	6	10	2	0	0	0	18
WSW	5	11	5	0	0	0	21
W	4	13	23	0	0	0	40
WNW	4	11	10	1	0	0	26
NW	4	11	10	0	0	0	25
NNW	4	7	4	1	0	0	16
TOTAL	60	170	161	40	2	0	450

PERIODS OF CALM(HOURS): 11
 VARIABLE DIRECTION: 15
 HOURS OF MISSING DATA: 75

Table 6 - Continued

SITE: OYSTER CREEK

HOURS AT EACH WIND SPEED AND DIRECTION
 PERIOD OF RECORD - 84040101-84063024
 STABILITY CLASS E DT/DZ
 ELEVATION SPEED: SPD33A DIRECTION: DIR33A LAPSE: DT150

WIND DIRECTION	WIND SPEED (MPH)						TOTAL
	1-3	4-7	8-12	13-18	19-24	>24	
N	0	5	0	0	0	0	5
NNE	2	2	1	0	0	0	5
NE	0	3	0	0	0	0	3
ENE	2	2	0	0	0	0	4
E	0	1	0	0	0	0	1
ESE	0	3	0	0	0	0	3
SE	4	4	0	0	0	0	8
SSE	7	10	1	0	0	0	18
S	6	20	5	1	0	0	32
SSW	13	36	4	1	0	0	54
SW	3	41	4	0	0	0	48
WSW	6	30	7	0	0	0	62
W	6	25	7	0	0	0	38
WNW	2	17	4	0	0	0	23
NW	3	17	6	0	0	0	26
NNW	7	0	3	1	0	0	20
TOTAL	61	234	42	3	0	0	340

PERIODS OF CALM (HOURS): 11
 VARIABLE DIRECTION 6
 HOURS OF MISSING DATA: 75

SITE: OYSTER CREEK

HOURS AT EACH WIND SPEED AND DIRECTION
 PERIOD OF RECORD - 84040101-84063024
 STABILITY CLASS F DT/DZ
 ELEVATION SPEED: SPD33A DIRECTION: DIR33A LAPSE: DT150

WIND DIRECTION	WIND SPEED (MPH)						TOTAL
	1-3	4-7	8-12	13-18	19-24	>24	
N	1	0	0	0	0	0	1
NNE	1	1	0	0	0	0	2
NE	1	1	0	0	0	0	2
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	4	1	0	0	0	0	5
SSE	2	1	0	0	0	0	3
S	3	0	0	0	0	0	3
SSW	1	4	0	0	0	0	5
SW	1	20	0	0	0	0	21
WSW	4	27	0	0	0	0	31
W	4	0	0	0	0	0	13
WNW	4	13	0	0	0	0	17
NW	7	13	0	0	0	0	20
NNW	1	10	0	0	0	0	11
TOTAL	36	100	0	0	0	0	136

PERIODS OF CALM (HOURS): 11
 VARIABLE DIRECTION 3
 HOURS OF MISSING DATA: 75

Table 6 - Continued

SITE: OYSTER CREEK

HOURS AT EACH WIND SPEED AND DIRECTION
 PERIOD OF RECORD = 04040101-04063024
 STABILITY CLASS: C DT/DZ
 ELEVATION: SPEED: SPD33A DIRECTION: DIR33A LAPSE: DT150

WIND DIRECTION	WIND SPEED (MPH)						TOTAL
	1-3	4-7	8-12	13-18	19-24	>24	
N	0	1	0	0	0	0	7
NNE	2	0	0	0	0	0	2
NE	0	1	0	0	0	0	1
ENE	1	0	0	0	0	0	1
E	0	0	0	0	0	0	0
ESE	1	0	0	0	0	0	1
SE	1	0	0	0	0	0	1
SSE	1	0	0	0	0	0	1
S	6	0	0	0	0	0	6
SSW	7	0	0	0	0	0	7
SW	10	6	0	0	0	0	16
WSW	10	57	0	0	0	0	76
W	10	25	0	0	0	0	44
WNW	13	14	1	0	0	0	28
NW	10	0	0	0	0	0	28
NNW	10	11	0	0	0	0	21
TOTAL	115	124	1	0	0	0	240

PERIODS OF CALM (HOURS): 11
 VARIABLE DIRECTION: 13
 HOURS OF MISSING DATA: 75

SITE: OYSTER CREEK

HOURS AT EACH WIND SPEED AND DIRECTION
 PERIOD OF RECORD = 04040101-04063024
 STABILITY CLASS: ALL DT/DZ
 ELEVATION: SPEED: SPD33A DIRECTION: DIR33A LAPSE: DT150

WIND DIRECTION	WIND SPEED (MPH)						TOTAL
	1-3	4-7	8-12	13-18	19-24	>24	
N	14	21	11	0	0	0	46
NNE	10	36	16	1	0	0	63
NE	7	33	23	0	0	0	63
ENE	0	34	23	1	0	0	67
E	7	34	36	1	0	0	78
ESE	3	45	36	5	1	0	90
SE	16	53	36	10	4	0	119
SSE	13	30	33	16	0	0	101
S	21	62	68	73	3	0	227
SSW	23	75	68	38	1	0	205
SW	20	88	26	0	0	0	134
WSW	35	146	31	6	0	0	218
W	34	93	76	10	0	0	213
WNW	30	70	60	0	0	0	167
NW	35	71	58	10	1	0	167
NNW	25	57	43	5	1	0	131
TOTAL	302	966	645	185	11	0	2100

PERIODS OF CALM (HOURS): 11
 VARIABLE DIRECTION: 44
 HOURS OF MISSING DATA: 75

TABLE 7

Oyster Creek Meteorological Tower Joint Frequency Tables of Wind Speed and
Wind Direction 380 ft versus Delta Temperature 380-33 ft for the
Period 1/1/84 - 3/31/84

SITE OYSTER CREEK

HOURS AT EACH WIND SPEED AND DIRECTION
PERIOD OF RECORD: 84010101-84033124
STABILITY CLASS: A DT/DZ
ELEVATION: SPEED: 5P300A DIRECTION: DR300A LAPSE: DT300A

WIND DIRECTION	WIND SPEED (MPH)						TOTAL
	1-3	4-7	8-12	13-18	19-24	>24	
N	0	0	1	0	0	1	2
NNE	0	0	5	2	0	2	0
NE	0	0	0	2	0	11	13
ENE	0	0	1	2	0	5	0
E	0	0	0	2	0	0	2
ESE	0	0	0	1	0	0	1
SE	0	0	1	0	0	0	1
SSE	0	0	0	0	0	0	0
S	0	0	0	0	0	0	0
SSW	0	0	0	0	0	0	0
SW	0	0	0	0	0	0	0
WSW	0	0	0	1	0	0	1
W	0	0	0	0	2	2	4
WNW	0	0	0	1	2	4	7
NW	0	0	1	7	7	13	28
NNW	0	0	0	2	0	4	6
TOTAL	0	0	0	20	11	42	82

PERIODS OF CALM (HOURS): 0
VARIABLE DIRECTION: 0
HOURS OF MISSING DATA: 00

SITE OYSTER CREEK

HOURS AT EACH WIND SPEED AND DIRECTION
PERIOD OF RECORD: 84010101-84033124
STABILITY CLASS: B DT/DZ
ELEVATION: SPEED: 5P300A DIRECTION: DR300A LAPSE: DT300A

WIND DIRECTION	WIND SPEED (MPH)						TOTAL
	1-3	4-7	8-12	13-18	19-24	>24	
N	0	0	1	1	0	0	2
NNE	0	0	1	3	0	0	4
NE	0	0	0	2	0	0	2
ENE	0	0	1	2	0	0	3
E	1	0	4	2	0	0	7
ESE	0	2	3	0	0	0	5
SE	0	0	2	0	0	0	2
SSE	1	0	0	2	0	0	3
S	1	0	0	0	0	0	1
SSW	0	1	0	1	0	0	2
SW	0	0	0	0	2	0	2
WSW	0	0	0	1	2	0	3
W	0	1	3	3	0	6	13
WNW	0	0	0	6	3	3	12
NW	0	0	3	0	0	4	25
NNW	0	0	4	4	0	0	8
TOTAL	3	4	22	36	16	13	94

PERIODS OF CALM (HOURS): 0
VARIABLE DIRECTION: 1
HOURS OF MISSING DATA: 00

Table 7 - Continued

SITE OYSTER CREEK

PERIOD OF RECORD - 04010101-04033124
 STABILITY CLASS - C DT/DZ
 ELEVATION - SPEED: SP300A DIRECTION: DR300A LAPSE: DT300A

WIND DIRECTION	WIND SPEED (MPH)						TOTAL
	1-3	4-7	8-12	13-18	19-24	>24	
N	0	1	7	1	0	0	0
NNE	1	1	3	2	0	0	7
NE	0	0	3	1	0	0	4
ENE	0	0	2	4	3	0	0
E	1	0	2	3	0	1	7
ESE	0	1	1	0	0	1	3
SE	1	1	3	0	0	0	5
SSE	0	0	3	3	0	1	7
S	0	0	0	1	0	0	1
SSW	1	0	1	0	0	0	2
SW	0	0	0	0	0	0	0
WSW	0	0	1	2	1	2	6
W	0	3	2	3	1	7	16
WNW	0	1	2	11	3	2	19
NW	0	2	0	17	5	5	30
NNW	0	0	1	5	3	1	10
TOTAL	4	10	40	53	16	20	143

PERIODS OF CALM (HOURS): 0
 VARIABLE DIRECTION: 3
 HOURS OF MISSING DATA: 00

SITE OYSTER CREEK

PERIOD OF RECORD - 04010101-04033124
 STABILITY CLASS - D DT/DZ
 ELEVATION - SPEED: SP300A DIRECTION: DR300A LAPSE: DT300A

WIND DIRECTION	WIND SPEED (MPH)						TOTAL
	1-3	4-7	8-12	13-18	19-24	>24	
N	2	5	23	17	4	3	54
NNE	0	6	14	16	5	0	41
NE	1	0	11	21	27	6	74
ENE	0	3	10	11	3	32	60
E	0	0	0	6	14	13	33
ESE	0	7	7	7	3	4	28
SE	1	2	11	6	5	1	26
SSE	2	7	10	6	1	0	26
S	0	3	6	4	10	4	27
SSW	1	4	10	0	7	12	42
SW	0	7	2	5	0	3	25
WSW	1	3	13	11	8	6	42
W	1	5	0	12	15	16	57
WNW	0	6	16	26	44	34	126
NW	1	10	22	37	52	12	143
NNW	0	0	18	24	20	6	77
TOTAL	10	103	100	217	226	152	808

PERIODS OF CALM (HOURS): 0
 VARIABLE DIRECTION: 12
 HOURS OF MISSING DATA: 00

Table 7 - Continued

SITE: OYSTER CREEK

HOURS AT EACH WIND SPEED AND DIRECTION
 PERIOD OF RECORD - 04010101-04033124
 STABILITY CLASS E DT/DZ
 ELEVATION SPEED: SP300A DIRECTION: DR300A LAPSE: DT300A

WIND DIRECTION	WIND SPEED (MPH)						TOTAL
	1-3	4-7	8-12	13-18	19-24	>24	
N	0	1	5	11	5	0	22
NNE	0	1	4	4	0	0	9
NE	0	4	3	0	3	1	11
ENE	0	3	3	3	1	2	12
E	0	1	5	2	0	0	8
ESE	1	1	5	4	1	3	15
SE	0	4	3	3	3	12	25
SSE	0	3	6	0	5	2	16
S	0	3	7	6	14	0	30
SSW	0	3	3	10	12	7	35
SW	0	1	3	15	15	4	38
WSW	0	1	0	10	14	0	25
W	0	1	7	12	0	0	20
WNW	1	2	0	10	20	3	33
NW	0	3	4	30	45	6	88
NNW	0	2	7	10	24	2	54
TOTAL	2	34	82	148	170	51	487
PERIODS OF CALM (HOURS):	0						
VARIABLE DIRECTION:	14						
HOURS OF MISSING DATA:	00						

SITE: OYSTER CREEK

HOURS AT EACH WIND SPEED AND DIRECTION
 PERIOD OF RECORD - 04010101-04033124
 STABILITY CLASS F DT/DZ
 ELEVATION SPEED: SP300A DIRECTION: DR300A LAPSE: DT300A

WIND DIRECTION	WIND SPEED (MPH)						TOTAL
	1-3	4-7	8-12	13-18	19-24	>24	
N	0	1	3	0	7	0	20
NNE	0	0	5	6	1	0	12
NE	0	0	4	0	0	0	4
ENE	0	0	1	0	0	0	1
E	0	1	2	0	0	0	3
ESE	0	0	0	3	0	1	4
SE	0	0	2	5	1	0	8
SSE	0	0	0	2	5	2	9
S	0	0	0	2	6	2	10
SSW	1	2	1	4	4	2	14
SW	0	2	3	2	0	3	10
WSW	0	1	1	11	0	0	13
W	0	2	3	11	7	0	23
WNW	0	0	3	0	21	4	28
NW	0	0	6	15	23	2	46
NNW	0	2	1	10	5	2	20
TOTAL	1	11	40	94	97	31	274
PERIODS OF CALM (HOURS):	0						
VARIABLE DIRECTION:	15						
HOURS OF MISSING DATA:	00						

Table 7 - Continued

SITE: OYSTER CREEK

HOURS AT EACH WIND SPEED AND DIRECTION
 PERIOD OF RECORD - 04010101-04033124
 STABILITY CLASS: G D1/D2
 ELEVATION: SPEED: SP300A DIRECTION: DR300A LAPSE: DT300A

WIND DIRECTION	WIND SPEED (MPH)						TOTAL
	1-3	4-7	8-12	13-18	19-24	>24	
N	0	0	3	0	0	3	6
NNE	0	0	6	6	0	0	12
NE	0	0	0	0	0	0	0
ENE	0	0	0	0	0	0	0
E	0	1	0	1	0	0	2
ESE	0	0	0	6	0	0	6
SE	0	0	0	2	0	0	2
SSE	0	1	0	0	0	0	1
S	1	0	4	0	0	0	5
SSW	0	0	0	2	2	1	5
SW	0	0	0	3	4	0	7
WSW	0	0	0	0	1	0	1
W	0	1	0	0	0	3	4
WNW	0	0	1	2	1	1	5
NW	0	1	6	4	1	1	13
NNW	0	1	1	0	2	2	6
TOTAL	1	5	21	42	11	10	90

PERIODS OF CALM (HOURS): 0
 VARIABLE DIRECTION: 4
 HOURS OF MISSING DATA: 00

SITE: OYSTER CREEK

HOURS AT EACH WIND SPEED AND DIRECTION
 PERIOD OF RECORD - 04010101-04033124
 STABILITY CLASS: ALL D1/D2
 ELEVATION: SPEED: SP300A DIRECTION: DR300A LAPSE: DT300A

WIND DIRECTION	WIND SPEED (MPH)						TOTAL
	1-3	4-7	8-12	13-18	19-24	>24	
N	2	0	43	30	16	7	115
NNE	1	0	30	30	6	2	69
NE	1	12	21	31	30	10	113
ENE	0	6	10	22	7	30	75
E	2	12	22	16	14	14	80
ESE	1	11	21	21	4	0	67
SE	2	7	22	16	0	13	60
SSE	3	11	10	13	11	5	62
S	2	6	17	13	30	10	83
SSW	3	10	15	25	25	22	100
SW	0	10	0	20	37	10	77
WSW	1	5	23	44	30	13	121
W	1	13	23	41	33	42	153
WNW	1	0	31	74	103	51	260
NW	1	25	51	110	142	43	381
NNW	0	14	32	72	54	17	189
TOTAL	21	167	404	610	556	328	2086

PERIODS OF CALM (HOURS): 0
 VARIABLE DIRECTION: 40
 HOURS OF MISSING DATA: 00

TABLE 8

Oyster Creek Meteorological Tower Joint Frequency Tables of Wind Speed and
Wind Direction 380 ft versus Delta Temperature 380-33 ft for the
Period 4/1/84 - 6/30/84

SITE OYSTER CREEK

HOURS AT EACH WIND SPEED AND DIRECTION
PERIOD OF RECORD = 84040101-84063024
STABILITY CLASS A DT/DZ
ELEVATION SPEED SP380A DIRECTION DR380A LAPSE DT380A

WIND DIRECTION	WIND SPEED (MPH)						TOTAL
	1-3	4-7	8-12	13-18	19-24	>24	
N	0	0	1	1	0	0	2
NNE	0	0	0	0	0	0	0
NE	0	0	1	2	1	0	4
ENE	0	0	6	7	0	0	13
E	0	0	7	3	0	0	10
ESE	0	0	5	0	0	0	5
SE	0	0	0	1	0	0	1
SSE	0	0	0	2	1	0	3
S	0	0	1	3	3	1	8
SSW	0	0	1	1	0	1	3
SW	0	0	0	1	0	0	1
WSW	0	0	0	2	1	1	4
W	0	0	3	6	0	1	10
WNW	0	0	0	0	7	6	22
NW	0	0	0	0	7	5	20
NNW	0	1	2	5	5	1	14
TOTAL	0	1	27	51	33	16	128

PERIODS OF CALM (HOURS) 3
VARIABLE DIRECTION 0
HOURS OF MISSING DATA 00

SITE OYSTER CREEK

HOURS AT EACH WIND SPEED AND DIRECTION
PERIOD OF RECORD = 84040101-84063024
STABILITY CLASS B DT/DZ
ELEVATION SPEED SP380A DIRECTION DR380A LAPSE DT380A

WIND DIRECTION	WIND SPEED (MPH)						TOTAL
	1-3	4-7	8-12	13-18	19-24	>24	
N	0	0	0	4	1	0	5
NNE	0	1	2	0	0	0	3
NE	0	0	3	0	0	0	3
ENE	0	1	4	4	0	0	9
E	0	1	4	2	0	0	7
ESE	0	3	12	1	0	0	16
SE	0	0	5	3	2	0	10
SSE	0	0	1	3	2	0	6
S	0	0	1	6	15	2	24
SSW	0	0	3	6	2	1	12
SW	0	0	1	3	0	0	4
WSW	0	0	3	4	2	1	10
W	0	1	0	4	5	1	11
WNW	0	0	4	12	7	2	25
NW	0	1	6	0	4	1	20
NNW	0	0	6	4	3	0	13
TOTAL	0	0	55	64	43	0	178

PERIODS OF CALM (HOURS) 3
VARIABLE DIRECTION 0
HOURS OF MISSING DATA 00

Table 8 - Continued

SITE OYSTER CREEK

HOURS AT EACH WIND SPEED AND DIRECTION
 PERIOD OF RECORD : 84040101-84063024
 STABILITY CLASS : C D1/D2
 ELEVATION : SPEED SP300A DIRECTION DR300A LAPSE DT300A

WIND DIRECTION	WIND SPEED (MPH)						TOTAL
	1-3	4-7	8-12	13-18	19-24	>24	
N	0	0	3	2	0	0	5
NNE	0	0	2	0	0	0	2
NE	0	0	4	2	0	0	6
ENE	0	1	1	1	0	0	3
E	0	2	3	3	1	0	9
ESE	0	6	0	0	0	0	15
SE	0	1	0	0	0	0	10
SSE	0	2	6	3	4	0	15
S	0	0	3	13	0	1	25
SSW	0	3	2	3	0	4	28
SW	0	1	4	5	1	0	11
WSW	0	0	0	6	0	0	6
W	0	0	6	3	6	0	15
WNW	0	2	6	3	7	1	19
NW	0	1	3	4	2	2	12
NNW	1	1	3	3	2	1	11
TOTAL	1	20	64	60	30	0	193

PERIODS OF CALM (HOURS) : 3
 VARIABLE DIRECTION : 1
 HOURS OF MISSING DATA : 00

SITE OYSTER CREEK

HOURS AT EACH WIND SPEED AND DIRECTION
 PERIOD OF RECORD : 84040101-84063024
 STABILITY CLASS : D D1/D2
 ELEVATION : SPEED SP300A DIRECTION DR300A LAPSE DT300A

WIND DIRECTION	WIND SPEED (MPH)						TOTAL
	1-3	4-7	8-12	13-18	19-24	>24	
N	1	3	0	4	0	0	16
NNE	1	10	15	10	2	0	38
NE	2	8	0	13	0	10	50
ENE	2	11	10	2	4	4	33
E	4	14	7	10	0	1	45
ESE	1	14	11	14	7	5	52
SE	1	12	17	8	0	0	47
SSE	1	0	27	0	5	3	53
S	3	10	24	33	20	20	110
SSW	0	3	15	34	37	17	106
SW	1	2	11	14	4	0	32
WSW	1	1	11	15	2	1	31
W	1	4	14	22	26	4	71
WNW	1	4	15	16	15	4	55
NW	1	3	13	14	14	7	62
NNW	0	0	7	12	7	1	27
TOTAL	21	107	213	230	161	86	818

PERIODS OF CALM (HOURS) : 3
 VARIABLE DIRECTION : 0
 HOURS OF MISSING DATA : 00

Table 8 - Continued

SITE: OYSTER CREEK

HOURS AT EACH WIND SPEED AND DIRECTION
 PERIOD OF RECORD = 84040101-04063024
 STABILITY CLASS E DT/DZ
 ELEVATION SPEED.SP300A DIRECTION.DR300A LAPSE.DT300A

WIND DIRECTION	WIND SPEED(MPH)						TOTAL
	1-3	4-7	8-12	13-18	19-24	>24	
N	2	1	2	0	0	0	14
NNE	1	1	5	2	0	0	0
NE	0	2	5	2	0	0	0
ENE	0	1	1	1	0	0	3
E	1	1	2	2	0	0	6
ESE	1	1	3	2	1	2	10
SE	0	1	7	4	1	1	14
SSE	0	1	12	6	0	0	10
S	2	4	12	16	4	1	30
SSW	0	1	0	21	20	6	53
SW	0	2	2	14	13	1	32
WSW	0	4	6	21	17	4	62
W	1	0	3	13	15	1	33
WNW	1	1	3	6	0	4	23
NW	1	1	4	0	21	1	37
NNW	0	1	3	7	13	3	27
TOTAL	10	23	75	135	113	24	300

PERIODS OF CALM(HOURS) 3
 VARIABLE DIRECTION 11
 HOURS OF MISSING DATA 00

SITE: OYSTER CREEK

HOURS AT EACH WIND SPEED AND DIRECTION
 PERIOD OF RECORD = 84040101-04063024
 STABILITY CLASS F DT/DZ
 ELEVATION SPEED.SP300A DIRECTION.DR300A LAPSE.DT300A

WIND DIRECTION	WIND SPEED(MPH)						TOTAL
	1-3	4-7	8-12	13-18	19-24	>24	
N	0	1	2	6	1	0	10
NNE	1	0	1	3	0	0	5
NE	0	2	0	3	0	0	5
ENE	0	2	2	0	0	0	4
E	1	0	0	0	0	0	1
ESE	0	0	0	0	0	0	0
SE	0	2	0	1	0	0	3
SSE	1	0	1	1	0	0	3
S	0	1	0	4	0	0	0
SSW	1	2	3	3	2	0	11
SW	0	1	4	4	23	16	48
WSW	0	1	4	4	0	0	25
W	1	2	1	0	10	0	32
WNW	0	0	2	11	17	5	35
NW	1	0	2	5	14	4	26
NNW	0	2	4	13	16	6	41
TOTAL	6	16	26	67	91	40	254

PERIODS OF CALM(HOURS) 3
 VARIABLE DIRECTION 13
 HOURS OF MISSING DATA 00

Table 8 - Continued

SITE OYSTER CREEK

HOURS AT EACH WIND SPEED AND DIRECTION
 PERIOD OF RECORD = 84040101-84063024
 STABILITY CLASS C DT/DZ
 ELEVATION SPEED SP300A DIRECTION DR300A LAPSE DT300A

WIND DIRECTION	WIND SPEED(MPH)						TOTAL
	1-3	4-7	8-12	13-18	19-24	>24	
N	1	1	2	4	6	0	14
NNE	1	1	3	2	0	0	7
NE	1	3	2	1	0	0	7
ENE	1	0	0	2	0	0	3
E	1	0	1	0	0	0	2
ESE	0	0	0	0	0	0	0
SE	0	0	0	0	0	0	0
SSE	2	1	0	0	0	0	3
S	0	2	1	1	0	0	4
SSW	0	0	2	3	0	0	5
SW	0	3	3	6	6	5	23
WSW	0	1	0	5	4	0	10
W	0	2	3	7	2	3	17
WNW	0	0	1	1	5	2	9
NW	2	3	1	3	5	3	17
NNW	0	2	5	0	6	1	22
TOTAL	0	10	24	43	34	14	143

PERIODS OF CALM(HOURS) 3
 VARIABLE DIRECTION 16
 HOURS OF MISSING DATA 00

SITE OYSTER CREEK

HOURS AT EACH WIND SPEED AND DIRECTION
 PERIOD OF RECORD = 84040101-84063024
 STABILITY CLASS ALL DT/DZ
 ELEVATION SPEED SP300A DIRECTION DR300A LAPSE DT300A

WIND DIRECTION	WIND SPEED(MPH)						TOTAL
	1-3	4-7	8-12	13-18	19-24	>24	
N	4	6	18	30	0	0	66
NNE	4	13	28	17	2	0	64
NE	3	15	23	23	10	10	84
ENE	3	16	24	17	4	4	68
E	7	10	24	20	10	1	88
ESE	2	24	48	17	0	7	88
SE	1	16	38	26	3	10	94
SSE	4	12	47	24	12	3	102
S	5	17	42	76	50	20	210
SSW	1	0	31	71	60	20	210
SW	1	0	25	47	47	22	151
WSW	1	7	24	57	34	16	138
W	3	0	30	64	72	10	197
WNW	2	7	31	58	66	24	188
NW	5	0	20	51	67	23	184
NNW	1	7	30	52	52	13	155
TOTAL	47	104	484	650	514	205	2004

PERIODS OF CALM(HOURS) 3
 VARIABLE DIRECTION 50
 HOURS OF MISSING DATA 00

FIGURE 2
GPU NUCLEAR CORPORATION
OYSTER CREEK NUCLEAR GENERATING STATION
JANUARY 1984-MARCH 1984 (33' LEVEL)

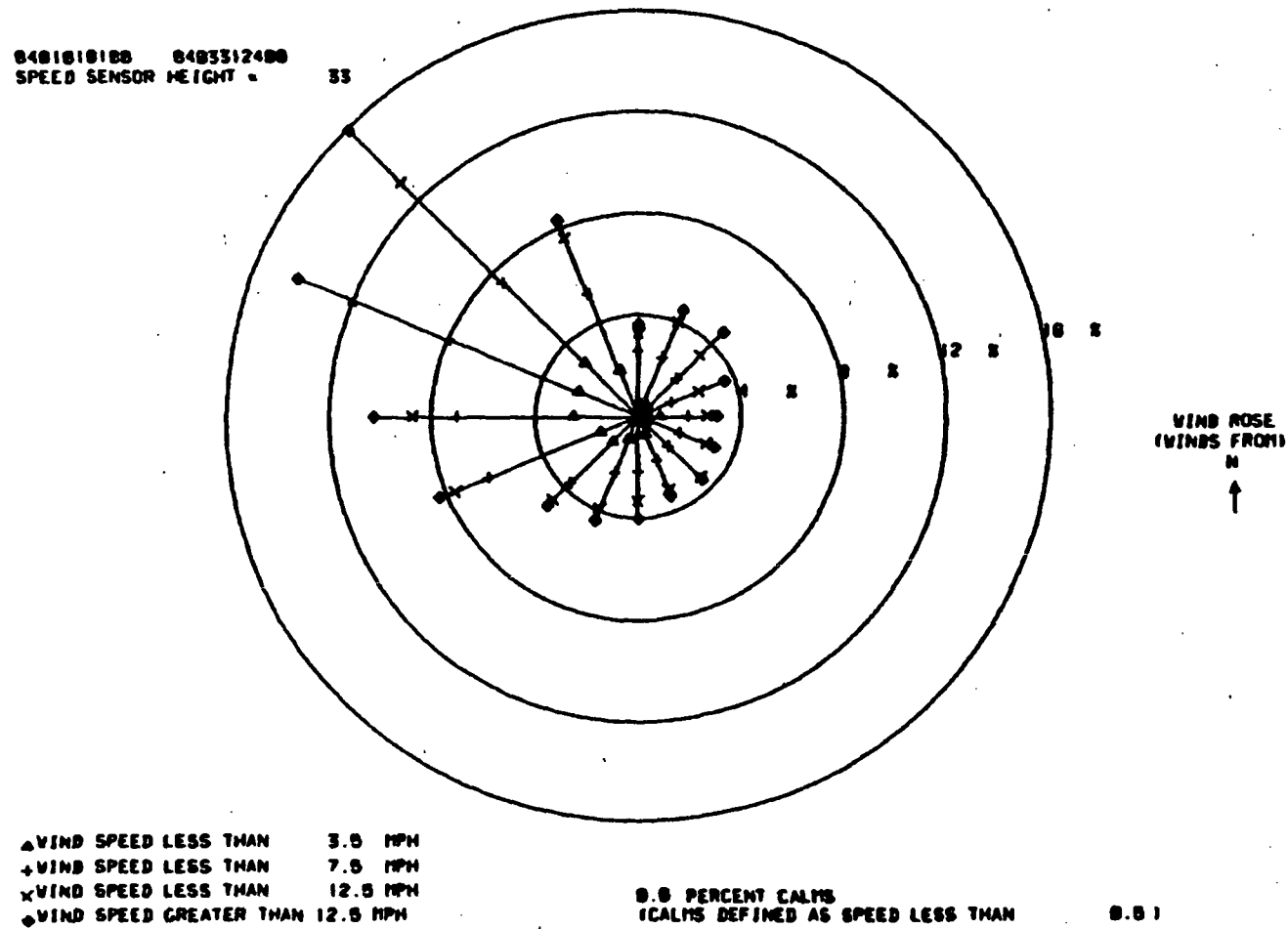


FIGURE 3
GPU NUCLEAR CORPORATION
OYSTER CREEK NUCLEAR GENERATING STATION
JANUARY 1984-MARCH 1984 (380' LEVEL)

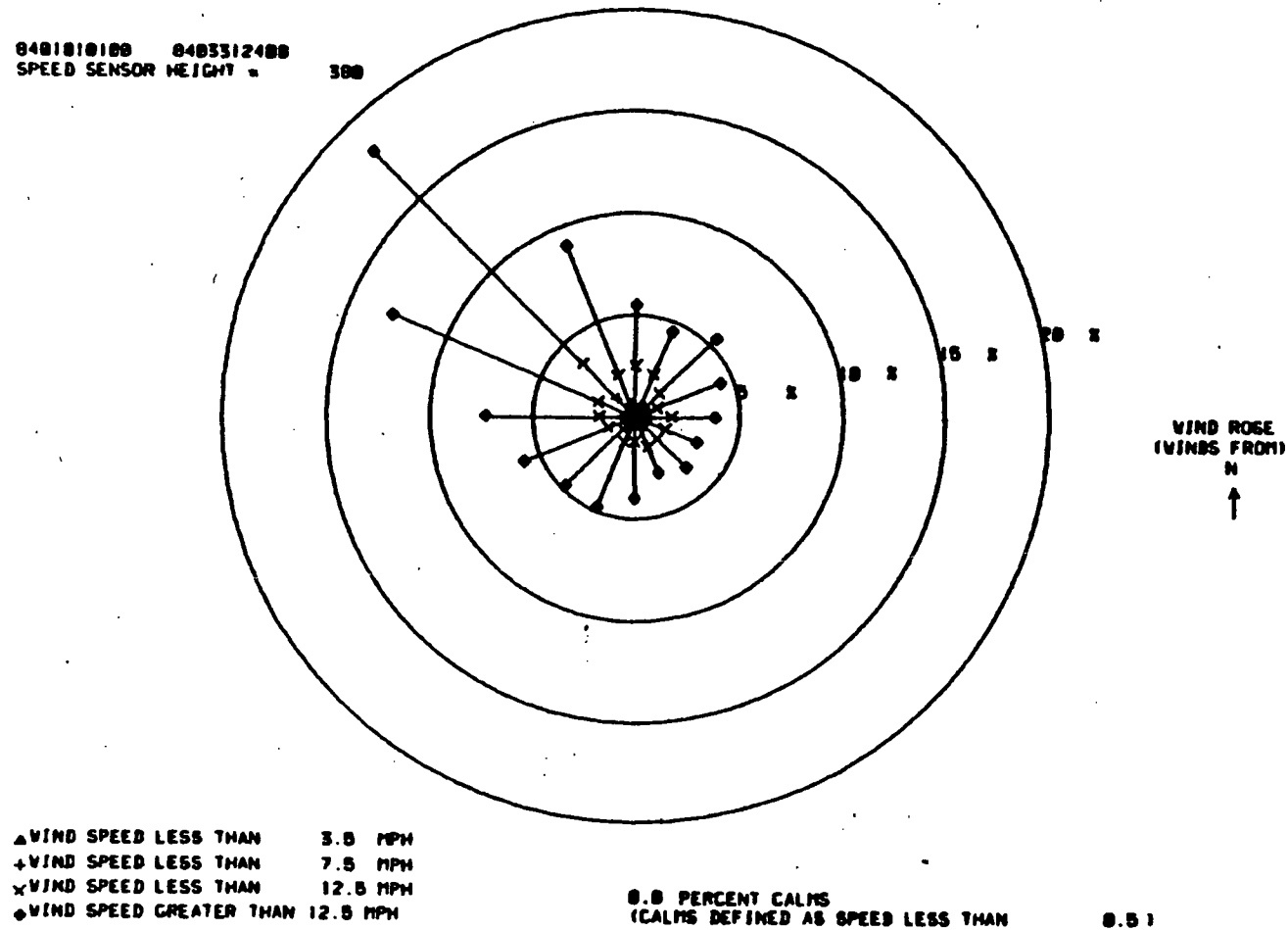
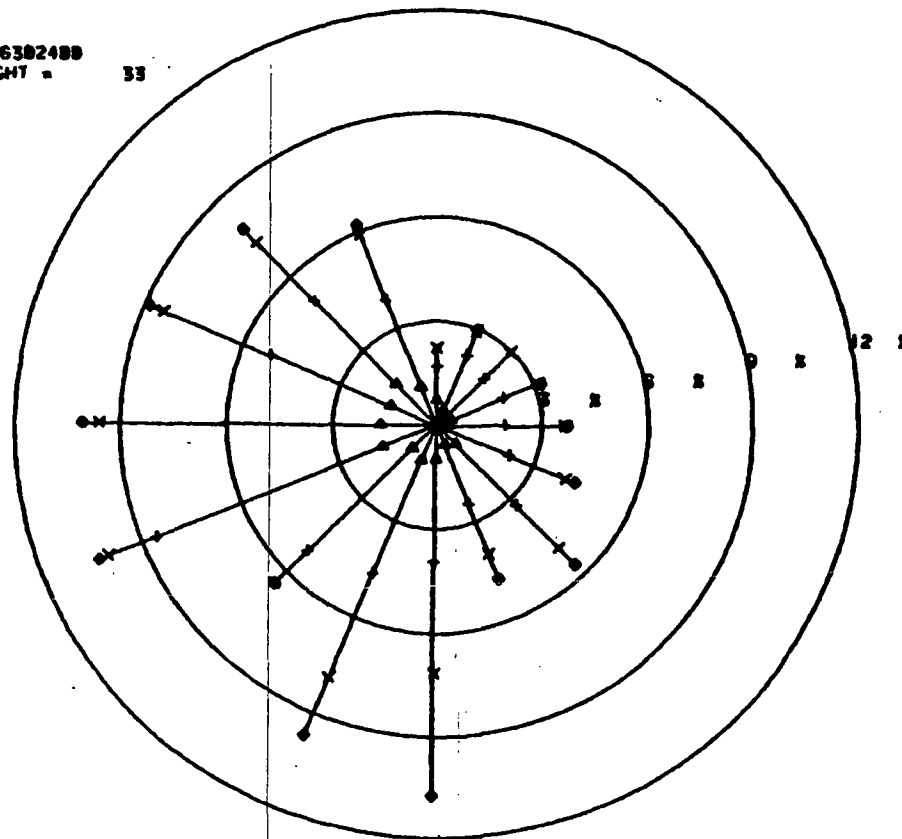


FIGURE 4
GPU NUCLEAR CORPORATION
OYSTER CREEK NUCLEAR GENERATING STATION
APRIL 1984-JUNE 1984 (33' LEVEL)

8404010100 8406302400
SPEED SENSOR HEIGHT = 33



WIND ROSE
(WINDS FROM)
N
↑

▲ WIND SPEED LESS THAN 3.5 MPH
△ WIND SPEED LESS THAN 7.5 MPH
× WIND SPEED LESS THAN 12.5 MPH
◆ WIND SPEED GREATER THAN 12.5 MPH

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

FIGURE 5
GPU NUCLEAR CORPORATION
OYSTER CREEK NUCLEAR GENERATING STATION
APRIL 1984-JUNE 1984 (380' LEVEL)

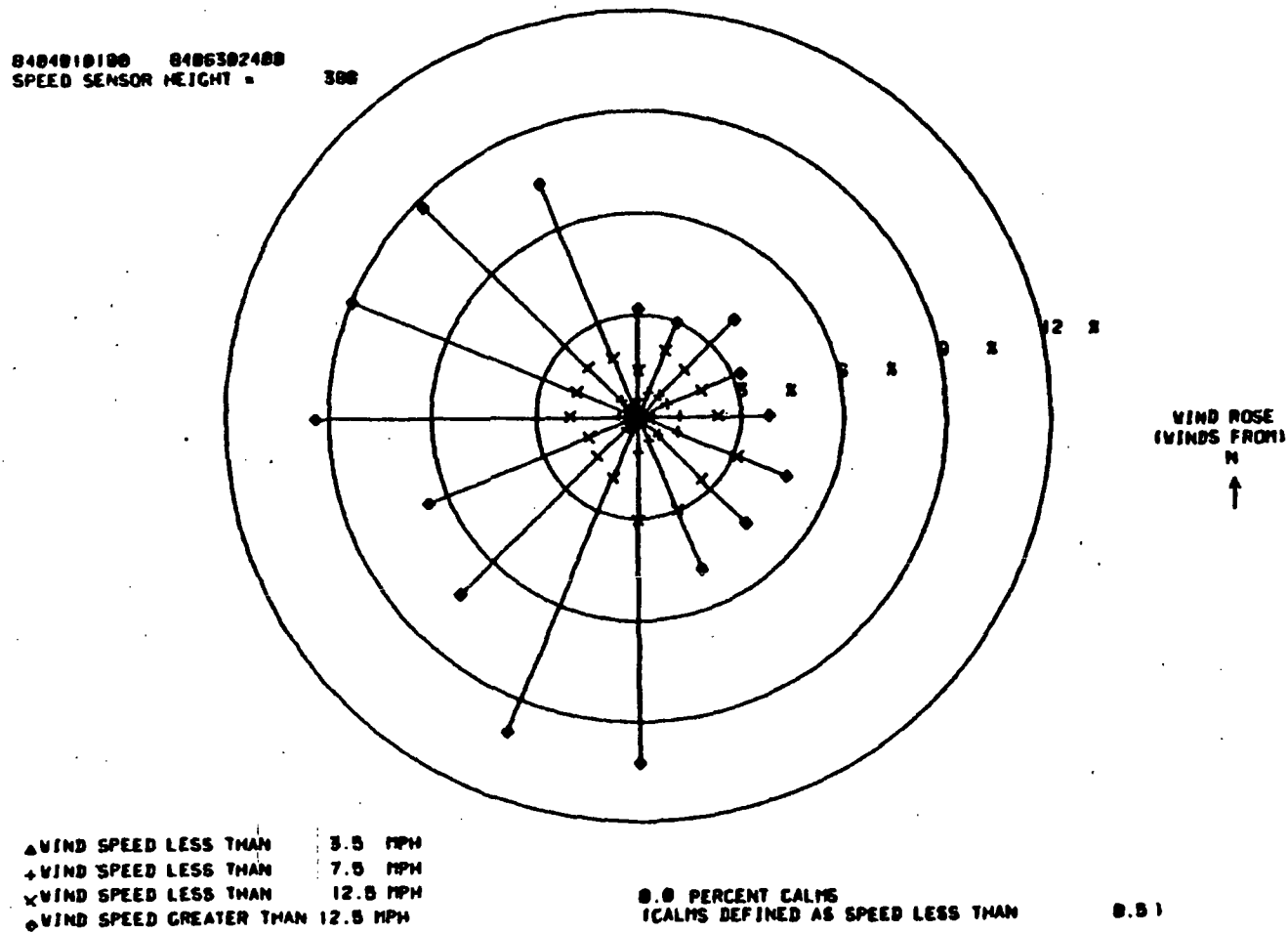


FIGURE 6

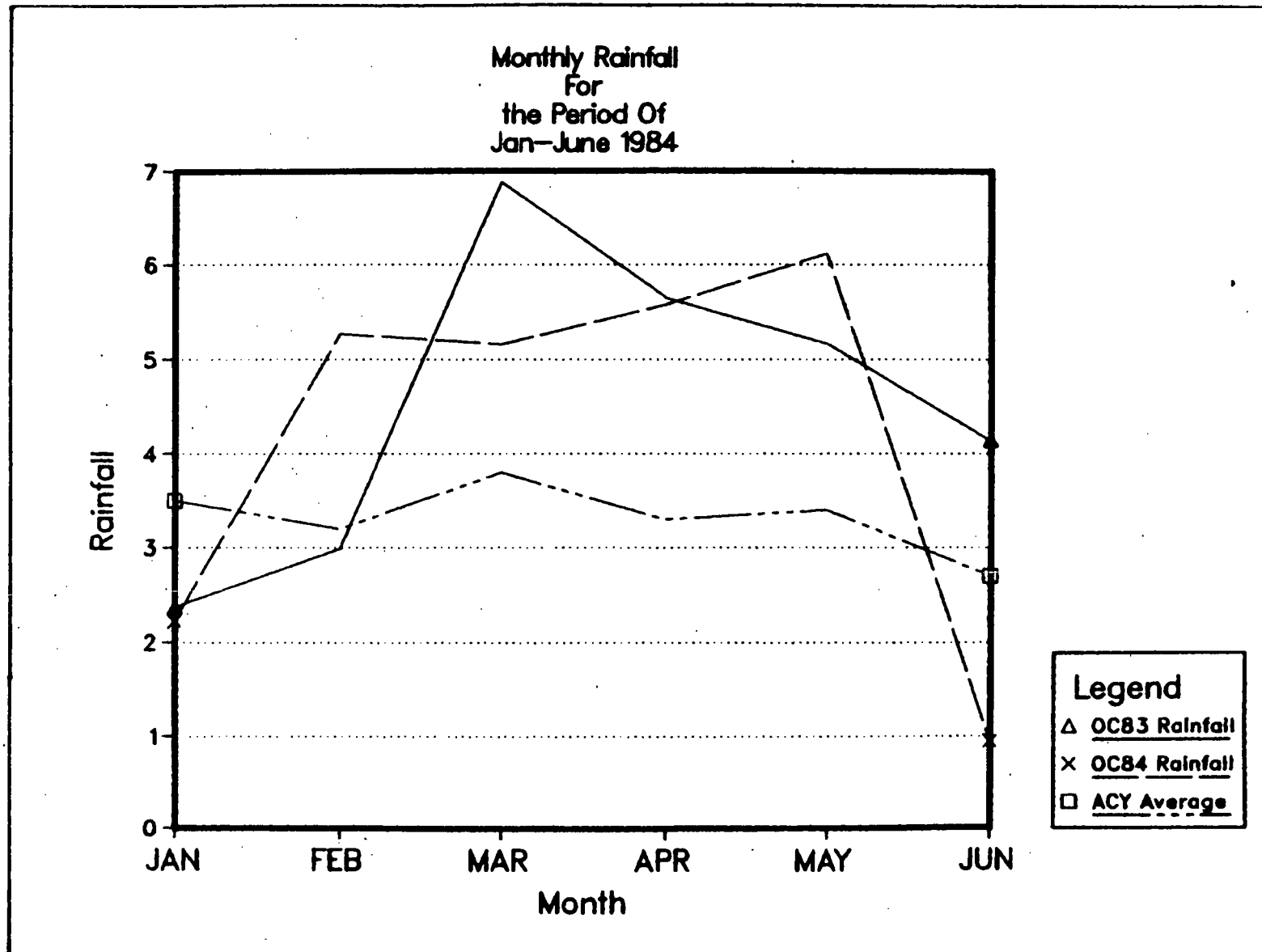


TABLE 9
 METEOROLOGICAL DATA RECOVERY PERCENTAGE
 FOR THE OYSTER CREEK NUCLEAR GENERATING STATION
 METEOROLOGICAL TOWER

MONTH	33' RECOVERY (%)	380' RECOVERY (%)
JAN 84	90	91
FEB 84	97	97
MAR 84	90	98
APR 84	97	96
MAY 84	99	97
JUN 84	<u>94</u>	<u>94</u>
SIX MONTH AVERAGE	95	96

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 10 and Figures 7 and 8.

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 radioactivity and fallout. Well water, surface water, aquatic sediment, and clams, as well as the aforementioned media, 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 11 through 16.

Sampling Techniques

Radiological environmental sampling is conducted around the OCNGS as described below:

<u>Environmental Media/Pathway</u>	<u>Mode of Sampling</u>
Atmosphere/direct radiation, inhalation	Composite of Air Particulates on filter Adsorption of air iodines on charcoal filter
Atmosphere/direct radiation	TLD and Film Badge
Surface Water/direct radiation	Grab Sample
Well Water/ingestion	Grab Sample
Precipitation/direct radiation	Composite
Vegetation, Crops/ingestion	Grab
Soil/direct radiation	Grab
Aquatic Sediment/direct radiation	Grab
Shellfish/ingestion	Grab

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.

Data

Tables 11 through 16 represent a summary of all radiological environmental data for the reporting period. Tables 14, 15, and 16 present the data in the manner prescribed in proposed USNRC Regulatory Guide 4.8 and USNRC Branch Technical Position.

TABLE 10
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 #554, 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

TABLE 10
OYSTER CREEK STATION
ENVIRONMENTAL MONITORING STATIONS
LOCATION AND SAMPLE TYPE COLLECTED

<u>STATION NUMBER</u>		<u>SAMPLE COLLECTED</u>
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
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, Townsend'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

TABLE 10
OYSTER CREEK STATION
ENVIRONMENTAL MONITORING STATIONS
LOCATION AND SAMPLE TYPE COLLECTED

<u>STATION NUMBER</u>		<u>SAMPLE COLLECTED</u>
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
29	Barnegat, 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	APT, AIO, RG, RWA
C	Cookstown, N.J. - Route #528 Spur, at JCP&L Company District Dispatcher	APT, AIO, RG, RWA

TABLE 10
OYSTER CREEK STATION
ENVIRONMENTAL MONITORING STATIONS
LOCATION AND SAMPLE TYPE COLLECTED

<u>STATION NUMBER</u>		<u>SAMPLE COLLECTED</u>
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

FIGURE 7
MAP OF REMP INDICATOR STATIONS

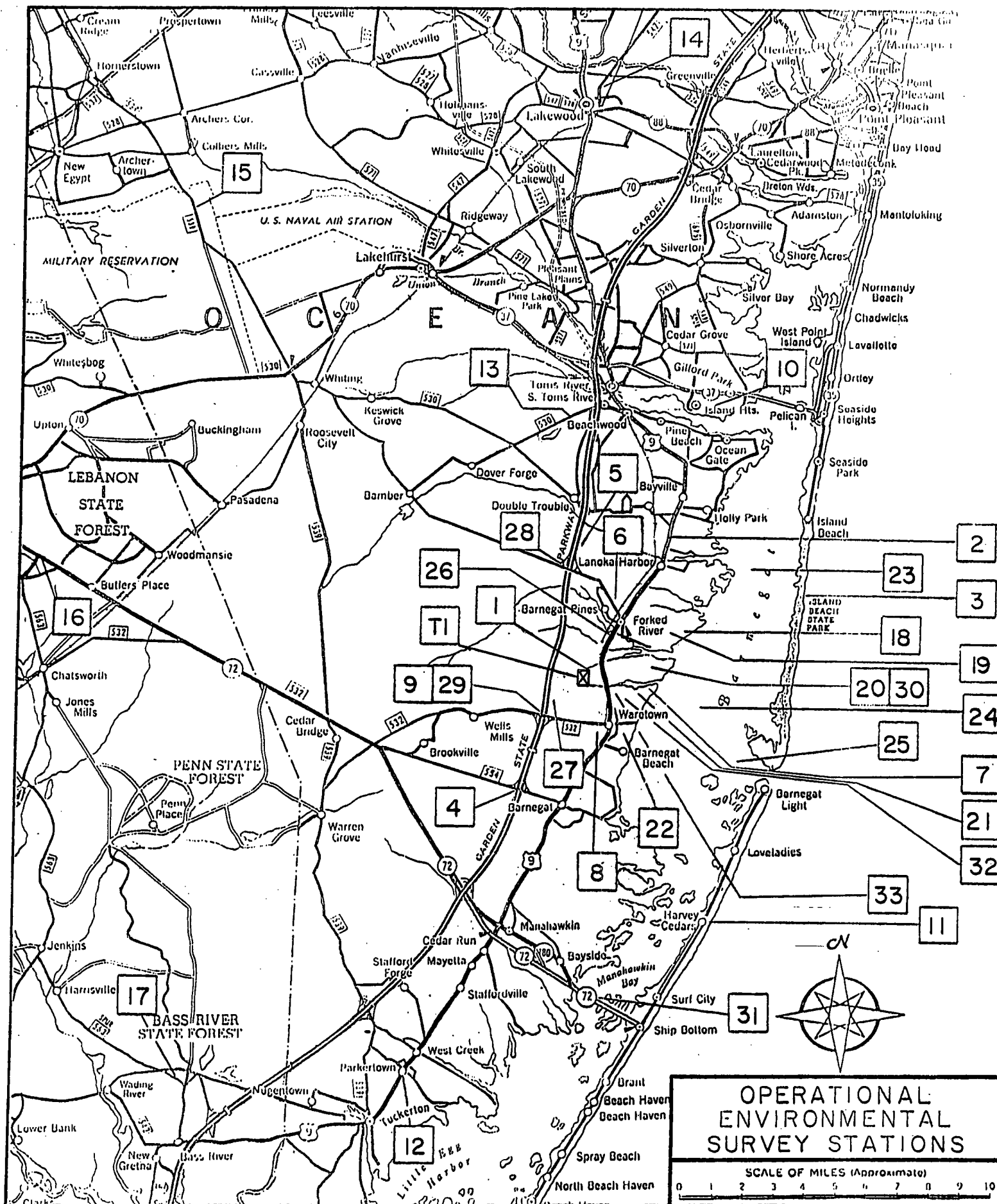


FIGURE 8
MAP OF REMP INDICATOR AND BACKGROUND STATIONS

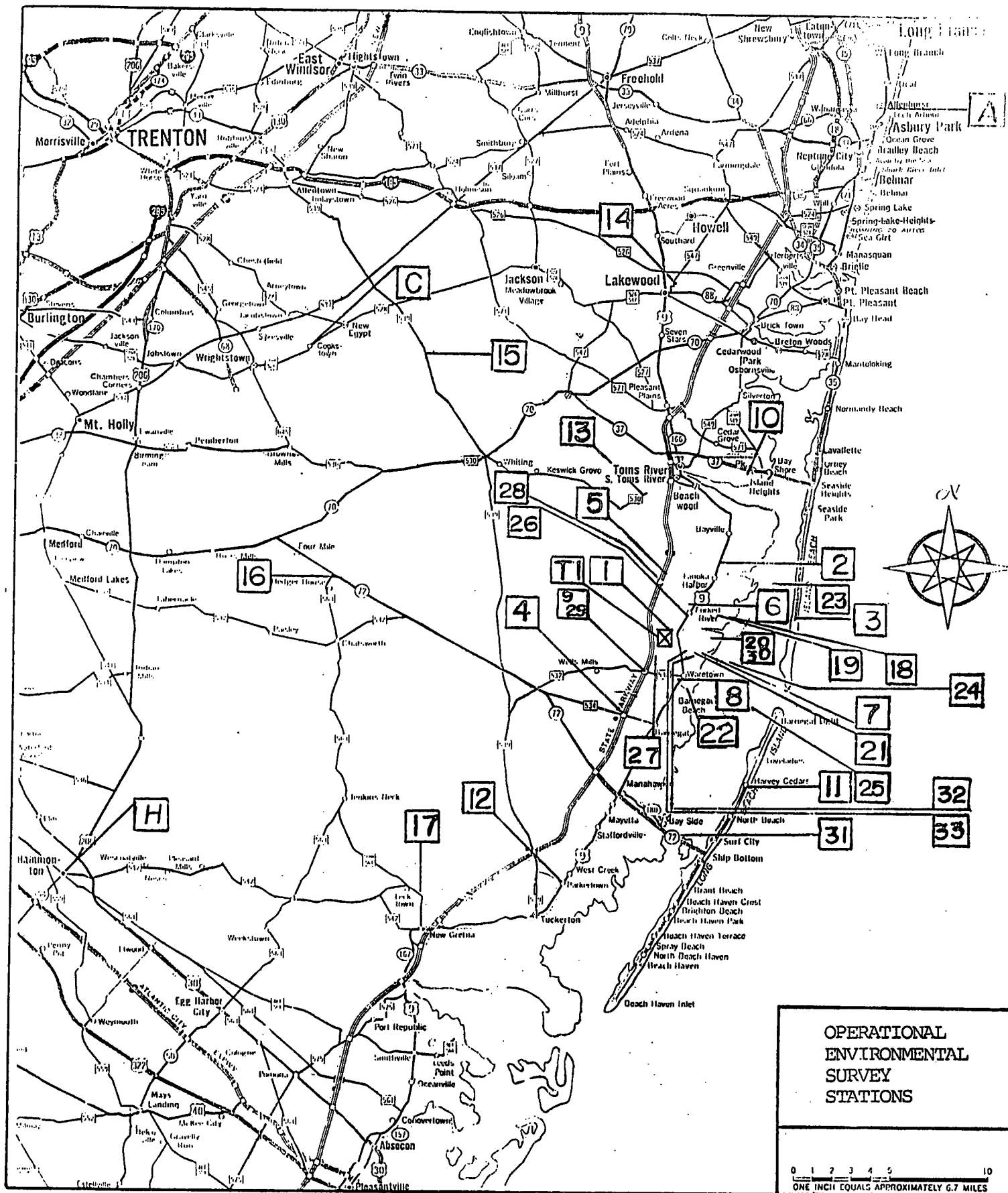


Table 11
Radiogas Film Badges
Scheduled Collection Period
December, 1983 through May, 1984

Collection Date		1- 3-84	1-30-84	2-27-84		Three	3-26-84	4-23-84	5-21-84		Four	Seven
Station	Unit					Month					Month	Month
						Total					Total	Total
1	Millirem	0	0	0		0	0	0	0		0	0
T1	Millirem	0	0	0		0	0	0	0		0	0
2	Millirem	0	0	0		0	0	0	0		0	0
3	Millirem	0	0	0		0	0	0	0		0	0
4	Millirem	0	0	0		0	0	0	0		0	0
5	Millirem	0	0	0		0	0	0	0		0	0
6	Millirem	0	0	0		0	0	0	0		0	0
7	Millirem	0	0	0		0	0	0	0		0	0
8	Millirem	0	0	0		0	0	0	0		0	0
9	Millirem	0	0	0		0	0	0	0		0	0
10	Millirem	LOST	0	0		-	0	0	0		0	-
11	Millirem	0	0	0		0	0	0	0		0	0
12	Millirem	0	0	0		0	0	0	0		0	0
13	Millirem	0	0	0		0	0	0	0		0	0
14	Millirem	0	0	0		0	0	4	0		4	4
15	Millirem	0	0	0		0	0	0	0		0	0
16	Millirem	0	0	0		0	0	0	0		0	0
17	Millirem	0	0	0		0	0	0	0		0	0
A	Millirem	0	0	0		0	0	0	0		0	0
C	Millirem	0	0	0		0	0	0	0		0	0
H	Millirem	0	0	0		0	0	0	0		0	0

TABLE 12
 GAMMA DOSE TO THE ENVIRONMENT (MR/STD. MONTH)

 AS MEASURED BY

 THERMOLUMINESCENT DOSIMETER

 FOR
 DECEMBER, 1983 THROUGH MAY, 1984
 (MONTHLY TLD READINGS)

MONTH:	DECEMBER		JANUARY		FEBRUARY		MARCH		APRIL		MAY		JUNE				
STATION	COLLECT DATE	DOSE	COLLECT DATE	DOSE	COLLECT DATE	DOSE	3-MO TOTAL	COLLECT DATE	DOSE	COLLECT DATE	DOSE	COLLECT DATE	DOSE	COLLECT DATE	DOSE	4-MO TOTAL	7-MO TOTAL
A	06DEC83	6.80	05JAN84	7.30	31JAN84	6.70	20.80	29FEB84	6.70	27MAR84	7.20	24APR84	8.40	23MAY84	9.20	31.50	52.30
C	05DEC83	6.80	04JAN84	6.10	31JAN84	7.10	20.00	27FEB84	6.30	26MAR84	6.10	24APR84	7.50	22MAY84	7.80	27.70	47.70
H	05DEC83	7.90	04JAN84	5.70	30JAN84	6.80	20.40	27FEB84	5.70	26MAR84	5.40	25APR84	6.50	22MAY84	7.60	25.20	45.60
1	08DEC83	6.20	03JAN84	7.20	02FEB84	6.70	20.10	02MAR84	6.60	30MAR84	6.40	27APR84	7.30	21MAY84	9.20	29.50	49.60
2	08DEC83	5.60	06JAN84	6.10	02FEB84	7.10	18.80	01MAR84	5.70	02APR84	5.00	26APR84	7.80	23MAY84	7.70	26.20	45.00
3	08DEC83	6.10	05JAN84	6.50	01FEB84	6.80	19.40	29FEB84	6.00	27MAR84	5.90	26APR84	6.50	25MAY84	7.30	25.70	45.10
4	07DEC83	6.00	03JAN84	6.40	03FEB84	6.00	18.40	02MAR84	6.10	30MAR84	5.70	26APR84	7.20	25MAY84	7.50	26.50	44.90
5	09DEC83	6.40	09JAN84	6.00	03FEB84	7.60	20.00	06MAR84	5.40	30MAR84	6.60	27APR84	7.20	23MAY84	8.20	27.40	47.40
6	06DEC83	5.70	09JAN84	5.30	31JAN84	8.50	19.50	29FEB84	5.90	27MAR84	6.00	24APR84	7.10	23MAY84	7.10	26.10	45.60
7	07DEC83	6.90	06JAN84	5.50	03FEB84	6.70	19.10	01MAR84	6.70	30MAR84	5.40	25APR84	7.20	24MAY84	7.20	26.50	45.60
8	05DEC83	6.70	03JAN84	5.80	30JAN84	6.40	18.90	28FEB84	5.70	28MAR84	5.30	25APR84	6.90	24MAY84	7.10	25.00	43.90
9	05DEC83	7.60	03JAN84	6.10	02FEB84	6.10	19.80	05MAR84	5.50	30MAR84	6.60	25APR84	8.20	24MAY84	7.50	27.80	47.60
T1	08DEC83	6.20	03JAN84	6.80	02FEB84	7.10	20.10	02MAR84	6.80	30MAR84	6.20	27APR84	8.00	21MAY84	8.70	29.70	49.80
10	06DEC83	6.70	TLD LOST		01FEB84	6.90	13.60	01MAR84	5.80	27MAR84	6.00	26APR84	6.70	25MAY84	7.10	25.60	39.20
11	07DEC83	6.40	06JAN84	5.50	02FEB84	6.30	18.20	28FEB84	5.90	28MAR84	5.10	25APR84	6.70	24MAY84	6.90	24.60	42.80
12	05DEC83	7.30	06JAN84	5.60	30JAN84	7.60	20.50	28FEB84	5.50	28MAR84	5.20	25APR84	7.10	22MAY84	7.90	25.70	46.20
13	06DEC83	6.00	05JAN84	5.50	01FEB84	7.70	19.20	01MAR84	5.70	30MAR84	5.40	26APR84	7.20	25MAY84	7.30	25.60	44.80
14	06DEC83	7.20	05JAN84	6.80	31JAN84	7.70	21.70	29FEB84	6.60	27MAR84	6.40	24APR84	8.10	23MAY84	8.40	29.50	51.20
15	07DEC83	5.90	04JAN84	5.60	31JAN84	6.50	18.00	27FEB84	6.20	26MAR84	5.70	24APR84	6.90	22MAY84	7.40	26.20	44.20
16	07DEC83	7.00	03JAN84	6.00	30JAN84	6.50	19.50	28FEB84	5.70	28MAR84	5.40	25APR84	6.70	24MAY84	6.90	24.70	44.20
17	05DEC83	7.00	04JAN84	5.70	30JAN84	7.00	19.70	TLD LOST		26MAR84	5.80	25APR84	6.60	22MAY84	8.10	20.50	40.20

TABLE 13
 RADIOLOGICAL ENVIRONMENTAL MONITORING PROGRAM SUMMARY
 OYSTER CREEK NUCLEAR GENERATING STATION
 DECEMBER, 1983 THROUGH MAY, 1984

THE FOLLOWING PAGES ARE A SUMMARY OF REMP DATA FOR THE SCHEDULED COLLECTION PERIOD DECEMBER, 1983 THRU MAY, 1984. 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	18
SAMPLE TYPE	AIR PARTICULATE AIR IODINE PRECIPITATION	SEDIMENT CLAMS SURFACE WATER	WELL WATER

TABLE 14
RADIOLOGICAL ENVIRONMENTAL MONITORING PROGRAM SUMMARY
OYSTER CREEK NUCLEAR GENERATING STATION
DECEMBER, 1983 THROUGH MAY, 1984
SEMI-ANNUAL SUMMARY

SAMPLE TYPE	ANALYSIS	ISOTOPE	NUMBER OF ANALYSES PERFORMED	LLD	INDICATOR-MEAN(N/TOTAL) RANGE	STATION	BACKGROUND-MEAN(N/TOTAL) RANGE	STATION-MEAN(N/TOTAL) RANGE	STATIONS USED FOR INDICATOR MEAN
VEGETATION (PCI/KG(WET))	GROSS BETA		35	3.69E+01	5.20E+03 (35 /35) (1.50E+03 - 1.15E+04)		(. . .) (. . .)		1 2 3 4 5
						2			
AIR PARTICULATE (PCI/M3)	GROSS ALPHA		104	1.07E-03	1.54E-03 (53 /65) (6.78E-04 - 3.20E-03)		1.61E-03(30 /39) (8.58E-04 - 3.30E-03)		1 2 3 4 5
						2			
AIR PARTICULATE (PCI/M3)	GROSS BETA		104	3.57E-03	1.48E-02 (65 /65) (3.85E-03 - 7.20E-02)		1.50E-02(39 /39) (4.20E-03 - 9.84E-02)		1 2 3 4 5
						1			
AIR PARTICULATE (PCI/M3)	GAMMA	CE-144	104	2.63E-02	< LLD (0 /65)		< LLD (0 /39)		1 2 3 4 5
						5			
AIR PARTICULATE (PCI/M3)	GAMMA	CS-134	104	5.09E-03	< LLD (0 /65)		< LLD (0 /39)		1 2 3 4 5
						5			
AIR PARTICULATE (PCI/M3)	GAMMA	CO-58	104	5.38E-03	< LLD (0 /65)		< LLD (0 /39)		1 2 3 4 5
						5			

TABLE 14
RADIOLOGICAL ENVIRONMENTAL MONITORING PROGRAM SUMMARY
OYSTER CREEK NUCLEAR GENERATING STATION
DECEMBER, 1983 THROUGH MAY, 1984
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)	GAMMA	MN-54	104	4.76E-03	< LLD	(0 /65)	< LLD	(0 /39)	1	2	3	4	5
							5	< LLD (0 /13)					
AIR PARTICULATE (PCI/M3)	GAMMA	FE-59	104	1.35E-02	< LLD	(0 /65)	< LLD	(0 /39)	1	2	3	4	5
							5	< LLD (0 /13)					
AIR PARTICULATE (PCI/M3)	GAMMA	ZN-65	104	1.13E-02	< LLD	(0 /65)	< LLD	(0 /39)	1	2	3	4	5
							5	< LLD (0 /13)					
AIR PARTICULATE (PCI/M3)	GAMMA	CO-60	104	5.60E-03	< LLD	(0 /65)	< LLD	(0 /39)	1	2	3	4	5
							5	< LLD (0 /13)					
AIR PARTICULATE (PCI/M3)	GAMMA	K-40	104	1.13E-01	1.41E-01 (6 /65) (6.60E-02 - 2.20E-01)	< LLD	< LLD	(0 /39)	1	2	3	4	5
							2	2.20E-01(1 /13) (2.20E-01 - 2.20E-01)					
AIR PARTICULATE (PCI/M3)	GAMMA	BE-7	104	5.74E-02	8.59E-02 (25 /65) (8.70E-03 - 1.50E-01)	8.81E-02(17 /39) (4.20E-02 - 1.70E-01)	8.82E-02(5 /13) (4.50E-02 - 1.10E-01)	1	2	3	4	5	

TABLE 14
RADIOLOGICAL ENVIRONMENTAL MONITORING PROGRAM SUMMARY
OYSTER CREEK NUCLEAR GENERATING STATION
DECEMBER, 1983 THROUGH MAY, 1984
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)	GAMMA	ZR-95	104	1.17E-02	< LLD	(0 /65)	< LLD	(0 /39)	1	2	3	4	5
							5	< LLD (0 /13)					
AIR PARTICULATE (PCI/M3)	GAMMA	NB-95	104	5.52E-03	< LLD	(0 /65)	< LLD	(0 /39)	1	2	3	4	5
							5	< LLD (0 /13)					
AIR PARTICULATE (PCI/M3)	GAMMA	CE-141	104	8.60E-03	< LLD	(0 /65)	< LLD	(0 /39)	1	2	3	4	5
							5	< LLD (0 /13)					
AIR PARTICULATE (PCI/M3)	GAMMA	RU-103	104	5.86E-03	< LLD	(0 /65)	< LLD	(0 /39)	1	2	3	4	5
							5	< LLD (0 /13)					
AIR PARTICULATE (PCI/M3)	GAMMA	BA-140	104	3.21E-02	< LLD	(0 /65)	< LLD	(0 /39)	1	2	3	4	5
							5	< LLD (0 /13)					
AIR PARTICULATE (PCI/M3)	GAMMA	LA-140	104	1.61E-02	< LLD	(0 /65)	< LLD	(0 /39)	1	2	3	4	5
							5	< LLD (0 /13)					

TABLE 14
RADIOLOGICAL ENVIRONMENTAL MONITORING PROGRAM SUMMARY
OYSTER CREEK NUCLEAR GENERATING STATION
DECEMBER, 1983 THROUGH MAY, 1984
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)	GAMMA	RA-226	104	7.99E-02	< LLD	(0 /65)		< LLD	(0 /39)	1	2	3	4	5
							5	< LLD (0 /13)						
AIR PARTICULATE (PCI/M3)	GAMMA	TH-228	104	7.92E-03	< LLD	(0 /65)		< LLD	(0 /39)	1	2	3	4	5
							5	< LLD (0 /13)						
AIR PARTICULATE (PCI/M3)	GAMMA	I-131	104	2.76E-02	< LLD	(0 /65)		< LLD	(0 /39)	1	2	3	4	5
							5	< LLD (0 /13)						
AIR PARTICULATE (PCI/M3)	GAMMA	RU-106	104	4.24E-02	< LLD	(0 /65)		< LLD	(0 /39)	1	2	3	4	5
							5	< LLD (0 /13)						
AIR PARTICULATE (PCI/M3)	GAMMA	CS-137	104	5.33E-03	< LLD	(0 /65)		< LLD	(0 /39)	1	2	3	4	5
							5	< LLD (0 /13)						
AIR PARTICULATE (PCI/M3)	STRONTIUM-89		24	5.16E-04	< LLD	(0 /15)		< LLD	(0 /9)	1	2	3	4	5
							5	< LLD (0 /3)						

TABLE 14
RADIOLOGICAL ENVIRONMENTAL MONITORING PROGRAM SUMMARY
OYSTER CREEK NUCLEAR GENERATING STATION
DECEMBER, 1983 THROUGH MAY, 1984
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)	STRONTIUM-90		24	1.70E-04	2.70E-04 (1 /15) (2.70E-04 - 2.70E-04)	< LLD (0 /9)	1 2 3 4 5
					1	2.70E-04(1 /3) (2.70E-04 - 2.70E-04)	
PRECIPITATION (PCI/L)	GROSS BETA-SS		56	7.06E-01	2.08E+00 (13 /35) (6.50E-01 - 3.61E+00)	1.26E+00(10 /21) (5.33E-01 - 2.01E+00)	1 2 3 4 5
					5	2.81E+00(2 /7) (2.01E+00 - 3.61E+00)	
PRECIPITATION (PCI/L)	GROSS BETA-DS		56	8.38E-01	3.91E+00 (34 /35) (1.19E+00 - 1.18E+01)	3.89E+00(21 /21) (1.22E+00 - 1.05E+01)	1 2 3 4 5
					5	4.48E+00(7 /7) (1.70E+00 - 9.39E+00)	
PRECIPITATION (PCI/L)	GAMMA	CE-144	56	3.54E+01	< LLD (0 /35)	< LLD (0 /21)	1 2 3 4 5
					5	< LLD (0 /7)	
PRECIPITATION (PCI/L)	GAMMA	CS-134	56	4.51E+00	< LLD (0 /35)	< LLD (0 /21)	1 2 3 4 5
					5	< LLD (0 /7)	
PRECIPITATION (PCI/L)	GAMMA	CO-58	56	4.19E+00	< LLD (0 /35)	< LLD (0 /21)	1 2 3 4 5
					5	< LLD (0 /7)	

TABLE 14
RADIOLOGICAL ENVIRONMENTAL MONITORING PROGRAM SUMMARY
OYSTER CREEK NUCLEAR GENERATING STATION
DECEMBER, 1983 THROUGH MAY, 1984
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							
PRECIPITATION (PCI/L)	GAMMA	MN-54	56	4.07E+00	< LLD	(0 /35)	< LLD	(0 /21)	1	2	3	4	5
							5	< LLD (0 /7)					
PRECIPITATION (PCI/L)	GAMMA	FE-59	56	8.79E+00	< LLD	(0 /35)	< LLD	(0 /21)	1	2	3	4	5
							5	< LLD (0 /7)					
PRECIPITATION (PCI/L)	GAMMA	ZN-65	56	8.58E+00	< LLD	(0 /35)	< LLD	(0 /21)	1	2	3	4	5
							5	< LLD (0 /7)					
PRECIPITATION (PCI/L)	GAMMA	CO-60	56	4.37E+00	< LLD	(0 /35)	< LLD	(0 /21)	1	2	3	4	5
							5	< LLD (0 /7)					
PRECIPITATION (PCI/L)	GAMMA	K-40	56	8.79E+01	< LLD	(0 /35)	< LLD	(0 /21)	1	2	3	4	5
							5	< LLD (0 /7)					
PRECIPITATION (PCI/L)	GAMMA	BE-7	56	4.47E+01	6.28E+01 (5 /35) (5.50E+01 - 7.30E+01)		5.99E+01(7 /21)		1	2	3	4	5
							(4.50E+01 - 7.10E+01)						
						3	7.30E+01(1 /7) (7.30E+01 - 7.30E+01)						

TABLE 14
RADIOLOGICAL ENVIRONMENTAL MONITORING PROGRAM SUMMARY
OYSTER CREEK NUCLEAR GENERATING STATION
DECEMBER, 1983 THROUGH MAY, 1984
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						
PRECIPITATION (PCI/L)	GAMMA	ZR-95	56	8.98E+00	< LLD	(0 /35)	< LLD	(0 /21)	1	2	3	4	5
PRECIPITATION (PCI/L)	GAMMA	NB-95	56	4.53E+00	< LLD	(0 /35)	< LLD	(0 /21)	1	2	3	4	5
PRECIPITATION (PCI/L)	GAMMA	CE-141	56	9.48E+00	< LLD	(0 /35)	< LLD	(0 /21)	1	2	3	4	5
PRECIPITATION (PCI/L)	GAMMA	RU-103	56	4.99E+00	< LLD	(0 /35)	< LLD	(0 /21)	1	2	3	4	5
PRECIPITATION (PCI/L)	GAMMA	BA-140	56	1.84E+01	< LLD	(0 /35)	< LLD	(0 /21)	1	2	3	4	5
PRECIPITATION (PCI/L)	GAMMA	LA-140	56	7.94E+00	< LLD	(0 /35)	< LLD	(0 /21)	1	2	3	4	5

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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)	GAMMA	RA-226	56	9.30E+01	< LLD	(0 /35)	< LLD	(0 /21)	1	2	3	4	5
						5	< LLD (0 /7)						
PRECIPITATION (PCI/L)	GAMMA	TH-228	56	8.68E+00	< LLD	(0 /35)	< LLD	(0 /21)	1	2	3	4	5
						5	< LLD (0 /7)						
PRECIPITATION (PCI/L)	GAMMA	I-131	55	1.18E+01	< LLD	(0 /34)	< LLD	(0 /21)	1	2	3	4	5
						5	< LLD (0 /7)						
PRECIPITATION (PCI/L)	GAMMA	RU-106	56	3.77E+01	< LLD	(0 /35)	< LLD	(0 /21)	1	2	3	4	5
						5	< LLD (0 /7)						
PRECIPITATION (PCI/L)	GAMMA	CS-137	56	4.80E+00	< LLD	(0 /35)	< LLD	(0 /21)	1	2	3	4	5
						5	< LLD (0 /7)						
PRECIPITATION (PCI/L)	TRITIUM		56	1.20E+02	2.59E+02 (31 /35) (6.20E+01 - 8.55E+02)		1.77E+02(18 /21) (6.10E+01 - 4.51E+02)		1	2	3	4	5
						5	3.28E+02(6 /7) (1.41E+02 - 8.55E+02)						

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					STATION	STATION-MEAN(N/TOTAL) RANGE	
PRECIPITATION (PCI/L)	STRONTIUM-89		56	2.03E+00	< LLD (0 /35)	< LLD (0 /21)	1 2 3 4 5
					5	< LLD (0 /7)	
PRECIPITATION (PCI/L)	STRONTIUM-90		56	5.20E-01	< LLD (0 /35)	< LLD (0 /21)	1 2 3 4 5
					5	< LLD (0 /7)	
AIR IODINE (PCI/M3)	IODINE-131		104	2.36E-02	< LLD (0 /65)	< LLD (0 /39)	1 2 3 4 5
					5	< LLD (0 /13)	
SURFACE WATER (PCI/L)	GROSS ALPHA-SS		50	4.94E-01	< LLD (0 /44)	< LLD (0 /6)	23 24 25 26 27 32 33
					33	< LLD (0 /6)	
SURFACE WATER (PCI/L)	GROSS ALPHA-DS		50	4.95E+01	6.58E+00 (9 /44) (7.70E-01 - 4.44E+01)	< LLD (0 /6)	23 24 25 26 27 32 33
					24	4.44E+01(1 /6) (4.44E+01 - 4.44E+01)	
SURFACE WATER (PCI/L)	GROSS BETA-SS		50	8.80E-01	1.82E+00 (3 /44) (9.93E-01 - 3.22E+00)	< LLD (0 /6)	23 24 25 26 27 32 33
					33	3.22E+00(1 /6) (3.22E+00 - 3.22E+00)	

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					STATION	STATION-MEAN(N/TOTAL) RANGE						
SURFACE WATER (PCI/L)	GROSS BETA-DS	50	2.00E+01	1.91E+02 (44 /44) (1.20E+00 - 9.56E+02)		3.45E+02(6 /6) (3.10E+02 - 3.82E+02)		23	24	25	26	27
					25	4.63E+02(6 /6) (2.90E+02 - 9.56E+02)		32	33			
SURFACE WATER (MG/L)	CALCIUM BY AA	50	1.00E+01	5.20E+02 (36 /44) (1.21E+01 - 3.32E+03)		1.03E+03(6 /6) (4.02E+02 - 2.08E+03)		23	24	25	26	27
					24	1.03E+03(6 /6) (3.09E+02 - 3.32E+03)		32	33			
SURFACE WATER (PCI/L)	GAMMA	CE-144	50	3.35E+01	< LLD (0 /44)	< LLD (0 /6)		23	24	25	26	27
						< LLD (0 /6)		32	33			
SURFACE WATER (PCI/L)	GAMMA	CS-134	50	4.34E+00	< LLD (0 /44)	< LLD (0 /6)		23	24	25	26	27
						< LLD (0 /6)		32	33			
SURFACE WATER (PCI/L)	GAMMA	CO-58	50	4.10E+00	< LLD (0 /44)	< LLD (0 /6)		23	24	25	26	27
						< LLD (0 /6)		32	33			
SURFACE WATER (PCI/L)	GAMMA	MN-54	50	3.88E+00	< LLD (0 /44)	< LLD (0 /6)		23	24	25	26	27
						< LLD (0 /6)		32	33			

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					STATION	STATION-MEAN(N/TOTAL) RANGE							
SURFACE WATER (PCI/L)	GAMMA	FE-59	50	8.65E+00	< LLD	(0 /44)	< LLD	(0 /6)	23	24	25	26	27
						33	< LLD (0 /6)	32	33				
SURFACE WATER (PCI/L)	GAMMA	ZN-65	50	8.31E+00	< LLD	(0 /44)	< LLD	(0 /6)	23	24	25	26	27
						33	< LLD (0 /6)	32	33				
SURFACE WATER (PCI/L)	GAMMA	CO-60	50	4.33E+00	< LLD	(0 /44)	< LLD	(0 /6)	23	24	25	26	27
						33	< LLD (0 /6)	32	33				
SURFACE WATER (PCI/L)	GAMMA	K-40	50	9.12E+01	1.63E+02 (23 /44) (4.70E+01 - 2.50E+02)		1.72E+02(5 /6) (1.40E+02 - 2.00E+02)	23	24	25	26	27	
						23	1.90E+02(6 /6) (1.40E+02 - 2.50E+02)	32	33				
SURFACE WATER (PCI/L)	GAMMA	BE-7	50	3.96E+01	< LLD	(0 /44)	< LLD	(0 /6)	23	24	25	26	27
						33	< LLD (0 /6)	32	33				
SURFACE WATER (PCI/L)	GAMMA	ZR-95	50	8.83E+00	< LLD	(0 /44)	< LLD	(0 /6)	23	24	25	26	27
						33	< LLD (0 /6)	32	33				

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					STATION	STATION-MEAN(N/TOTAL) RANGE							
SURFACE WATER (PCI/L)	GAMMA	NB-95	50	4.40E+00	< LLD	(0 /44)	< LLD	(0 /6)	23 32	24 33	25	26	27
							33	< LLD (0 /6)					
SURFACE WATER (PCI/L)	GAMMA	CE-141	50	9.40E+00	< LLD	(0 /44)	< LLD	(0 /6)	23 32	24 33	25	26	27
							33	< LLD (0 /6)					
SURFACE WATER (PCI/L)	GAMMA	RU-103	50	5.09E+00	< LLD	(0 /44)	< LLD	(0 /6)	23 32	24 33	25	26	27
							33	< LLD (0 /6)					
SURFACE WATER (PCI/L)	GAMMA	BA-140	50	2.05E+01	< LLD	(0 /44)	< LLD	(0 /6)	23 32	24 33	25	26	27
							33	< LLD (0 /6)					
SURFACE WATER (PCI/L)	GAMMA	LA-140	50	8.42E+00	< LLD	(0 /44)	< LLD	(0 /6)	23 32	24 33	25	26	27
							33	< LLD (0 /6)					
SURFACE WATER (PCI/L)	GAMMA	RA-226	50	9.03E+01	< LLD	(0 /44)	< LLD	(0 /6)	23 32	24 33	25	26	27
							33	< LLD (0 /6)					

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					STATION	STATION-MEAN(N/TOTAL) RANGE	
SURFACE WATER (PCI/L)	GAMMA	TH-228	50	8.51E+00	< LLD (0 /44)	< LLD (0 /6)	23 24 25 26 27 32 33
					33	< LLD (0 /6)	
SURFACE WATER (PCI/L)	GAMMA	I-131	50	1.44E+01	< LLD (0 /44)	< LLD (0 /6)	23 24 25 26 27 32 33
					33	< LLD (0 /6)	
SURFACE WATER (PCI/L)	GAMMA	RU-106	50	3.66E+01	< LLD (0 /44)	< LLD (0 /6)	23 24 25 26 27 32 33
					33	< LLD (0 /6)	
SURFACE WATER (PCI/L)	GAMMA	CS-137	50	4.51E+00	< LLD (0 /44)	< LLD (0 /6)	23 24 25 26 27 32 33
					33	< LLD (0 /6)	
SURFACE WATER (PCI/L)	TRITIUM		50	1.21E+02	2.26E+02 (35 /44) (6.80E+01 - 5.43E+02)	2.42E+02(6 /6) (1.18E+02 - 4.11E+02)	23 24 25 26 27 32 33
					23	2.88E+02(5 /6) (1.17E+02 - 5.43E+02)	
SURFACE WATER (PCI/L)	RADIUM-226		50	1.79E-01	8.77E-01 (10 /44) (3.03E-01 - 2.10E+00)	3.12E-01(1 /6) (3.12E-01 - 3.12E-01)	23 24 25 26 27 32 33
					26	1.62E+00(2 /7) (1.15E+00 - 2.10E+00)	

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				STATION	STATION-MEAN(N/TOTAL) RANGE	
SURFACE WATER (PCI/L)	RADIUM-228	50	1.87E-01	3.67E-01 (26 /44) (1.67E-01 - 1.01E+00)	5.07E-01(1 /6) (5.07E-01 - 5.07E-01)	23 24 25 26 27 32 33
				26	7.14E-01(4 /7) (3.93E-01 - 1.01E+00)	
SURFACE WATER (PCI/L)	STRONTIUM-89	50	1.19E+00	< LLD (0 /44)	< LLD (0 /6)	23 24 25 26 27 32 33
				33	< LLD (0 /6)	
SURFACE WATER (PCI/L)	STRONTIUM-90	50	5.43E-01	4.30E-01 (1 /44) (4.30E-01 - 4.30E-01)	< LLD (0 /6)	23 24 25 26 27 32 33
				27	4.30E-01(1 /7) (4.30E-01 - 4.30E-01)	
SURFACE WATER (PCI/L)	TOTAL URANIUM	50	3.40E-02	7.33E-01 (44 /44) (3.90E-02 - 2.84E+00)	1.21E+00(6 /6) (7.69E-01 - 1.58E+00)	23 24 25 26 27 32 33
				23	1.31E+00(6 /6) (5.56E-01 - 2.84E+00)	
WELL WATER (PCI/L)	GROSS ALPHA-SS	42	3.94E-01	< LLD (0 /35)	< LLD (0 /7)	1 19 20 21 22
				22	< LLD (0 /7)	
WELL WATER (PCI/L)	GROSS ALPHA-DS	42	8.18E-01	2.13E+00 (22 /35) (7.62E-01 - 6.18E+00)	2.28E+00(7 /7) (1.70E+00 - 2.58E+00)	1 19 20 21 22
				21	4.63E+00(4 /7) (2.82E+00 - 6.18E+00)	

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					STATION	STATION-MEAN(N/TOTAL) RANGE	
WELL WATER (PCI/L)	GROSS BETA-SS		42	7.47E-01	< LLD (0 /35)	< LLD (0 /7)	1 19 20 21 22
					22	< LLD (0 /7)	
WELL WATER (PCI/L)	GROSS BETA-DS		42	9.92E-01	3.60E+00 (34 /35) (1.50E+00 - 7.40E+00)	3.05E+00(7 /7) (2.20E+00 - 4.10E+00)	1 19 20 21 22
					19	4.22E+00(7 /7) (2.81E+00 - 7.40E+00)	
WELL WATER (PCI/L)	POTASSIUM-40		18	2.00E-01	2.01E+00 (15 /15) (1.60E+00 - 2.41E+00)	1.22E+00(3 /3) (7.89E-01 - 2.03E+00)	1 19 20 21 22
					19	2.29E+00(3 /3) (2.16E+00 - 2.41E+00)	
WELL WATER (PCI/L)	GAMMA	CE-144	18	3.57E+01	< LLD (0 /15)	< LLD (0 /3)	1 19 20 21 22
					22	< LLD (0 /3)	
WELL WATER (PCI/L)	GAMMA	CS-134	18	4.48E+00	< LLD (0 /15)	< LLD (0 /3)	1 19 20 21 22
					22	< LLD (0 /3)	
WELL WATER (PCI/L)	GAMMA	CO-58	18	4.36E+00	< LLD (0 /15)	< LLD (0 /3)	1 19 20 21 22
					22	< LLD (0 /3)	

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					STATION	STATION-MEAN(N/TOTAL) RANGE							
WELL WATER (PCI/L)	GAMMA	MN-54	18	4.06E+00	< LLD	(0 /15)	< LLD	(0 /3)	1	19	20	21	22
						22	< LLD (0 /3)						
WELL WATER (PCI/L)	GAMMA	FE-59	18	9.42E+00	< LLD	(0 /15)	< LLD	(0 /3)	1	19	20	21	22
						22	< LLD (0 /3)						
WELL WATER (PCI/L)	GAMMA	ZN-65	18	8.72E+00	< LLD	(0 /15)	< LLD	(0 /3)	1	19	20	21	22
						22	< LLD (0 /3)						
WELL WATER (PCI/L)	GAMMA	CO-60	18	4.37E+00	< LLD	(0 /15)	< LLD	(0 /3)	1	19	20	21	22
						22	< LLD (0 /3)						
WELL WATER (PCI/L)	GAMMA	K-40	18	8.37E+01	< LLD	(0 /15)	< LLD	(0 /3)	1	19	20	21	22
						22	< LLD (0 /3)						
WELL WATER (PCI/L)	GAMMA	BE-7	18	4.38E+01	< LLD	(0 /15)	< LLD	(0 /3)	1	19	20	21	22
						22	< LLD (0 /3)						

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					STATION	STATION-MEAN(N/TOTAL) RANGE							
WELL WATER (PCI/L)	GAMMA	ZR-95	18	9.37E+00	< LLD	(0 /15)	< LLD	(0 /3)	1	19	20	21	22
						22	< LLD (0 /3)						
WELL WATER (PCI/L)	GAMMA	NB-95	18	4.86E+00	< LLD	(0 /15)	< LLD	(0 /3)	1	19	20	21	22
						22	< LLD (0 /3)						
WELL WATER (PCI/L)	GAMMA	CE-141	18	1.05E+01	< LLD	(0 /15)	< LLD	(0 /3)	1	19	20	21	22
						22	< LLD (0 /3)						
WELL WATER (PCI/L)	GAMMA	RU-103	18	5.56E+00	< LLD	(0 /15)	< LLD	(0 /3)	1	19	20	21	22
						22	< LLD (0 /3)						
WELL WATER (PCI/L)	GAMMA	BA-140	18	2.77E+01	< LLD	(0 /15)	< LLD	(0 /3)	1	19	20	21	22
						22	< LLD (0 /3)						
WELL WATER (PCI/L)	GAMMA	LA-140	18	1.01E+01	< LLD	(0 /15)	< LLD	(0 /3)	1	19	20	21	22
						22	< LLD (0 /3)						

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					STATION	STATION-MEAN(N/TOTAL) RANGE							
WELL WATER (PCI/L)	GAMMA	RA-226	18	9.59E+01	< LLD	(0 /15)	< LLD	(0 /3)	1	19	20	21	22
					22	< LLD (0 /3)							
WELL WATER (PCI/L)	GAMMA	TH-228	18	8.73E+00	< LLD	(0 /15)	< LLD	(0 /3)	1	19	20	21	22
					22	< LLD (0 /3)							
WELL WATER (PCI/L)	GAMMA	I-131	18	1.80E+01	< LLD	(0 /15)	< LLD	(0 /3)	1	19	20	21	22
					22	< LLD (0 /3)							
WELL WATER (PCI/L)	GAMMA	RU-106	18	3.86E+01	< LLD	(0 /15)	< LLD	(0 /3)	1	19	20	21	22
					22	< LLD (0 /3)							
WELL WATER (PCI/L)	GAMMA	CS-137	18	4.73E+00	< LLD	(0 /15)	< LLD	(0 /3)	1	19	20	21	22
					22	< LLD (0 /3)							
WELL WATER (PCI/L)	TRITIUM		18	1.33E+02	2.73E+02 (9 /15) (1.29E+02 - 4.25E+02)		1.62E+02(3 /3) (7.40E+01 - 2.84E+02)		1	19	20	21	22
					22	4.25E+02(1 /3) (4.25E+02 - 4.25E+02)							

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				STATION	STATION-MEAN(N/TOTAL) RANGE	
WELL WATER (PCI/L)	RADIUM-226	18	3.38E-01	8.38E-01 (7 /15) (2.75E-01 - 1.35E+00)	8.16E-01(2 /3) (6.97E-01 - 9.36E-01)	1 19 20 21 22
				21	1.35E+00(1 /3) (1.35E+00 - 1.35E+00)	
WELL WATER (PCI/L)	RADIUM-228	18	2.80E-01	9.38E-01 (9 /15) (2.41E-01 - 2.43E+00)	8.04E-01(1 /3) (8.04E-01 - 8.04E-01)	1 19 20 21 22
				21	1.95E+00(2 /3) (1.48E+00 - 2.43E+00)	
WELL WATER (PCI/L)	TOTAL URANIUM	18	5.10E-02	1.23E-01 (2 /15) (1.20E-01 - 1.27E-01)	3.14E-01(3 /3) (5.77E-02 - 8.11E-01)	1 19 20 21 22
				21	1.27E-01(1 /3) (1.27E-01 - 1.27E-01)	
CLAMS (PCI/KG(WET))	GROSS ALPHA	24	5.25E+01	9.14E+01 (9 /18) (4.69E+01 - 1.43E+02)	1.06E+02(2 /6) (6.83E+01 - 1.44E+02)	23 24 25
				24	9.81E+01(1 /6) (9.81E+01 - 9.81E+01)	
CLAMS (PCI/KG(WET))	GROSS BETA	24	5.13E+01	1.95E+03 (17 /18) (8.65E+02 - 4.58E+03)	2.06E+03(5 /6) (1.21E+03 - 4.60E+03)	23 24 25
				24	2.01E+03(5 /6) (1.44E+03 - 4.08E+03)	
CLAMS (MG/GM(WET))	CALCIUM BY AA	12	7.70E-02	5.25E-01 (8 /9) (4.52E-02 - 1.30E+00)	7.51E-01(2 /3) (2.13E-01 - 1.29E+00)	23 24 25
				24	7.99E-01(2 /3) (2.99E-01 - 1.30E+00)	

TABLE 14
RADIOLOGICAL ENVIRONMENTAL MONITORING PROGRAM SUMMARY
OYSTER CREEK NUCLEAR GENERATING STATION
DECEMBER, 1983 THROUGH MAY, 1984
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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
CLAMS (PCI/KG(WET))	GAMMA	CE-144	12	6.51E+01	< LLD (0 /9)	25	< LLD (0 /3)		23 24 25
CLAMS (PCI/KG(WET))	GAMMA	CS-134	12	9.02E+00	< LLD (0 /9)	25	< LLD (0 /3)		23 24 25
CLAMS (PCI/KG(WET))	GAMMA	CO-58	12	8.79E+00	< LLD (0 /9)	25	< LLD (0 /3)		23 24 25
CLAMS (PCI/KG(WET))	GAMMA	MN-54	12	8.05E+00	< LLD (0 /9)	25	< LLD (0 /3)		23 24 25
CLAMS (PCI/KG(WET))	GAMMA	FE-59	12	2.13E+01	< LLD (0 /9)	25	< LLD (0 /3)		23 24 25
CLAMS (PCI/KG(WET))	GAMMA	ZN-65	12	1.80E+01	< LLD (0 /9)	25	< LLD (0 /3)		23 24 25

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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))	GAMMA	CO-60	12	1.04E+01	1.42E+01 (4 /9) (9.90E+00 - 1.90E+01)		< LLD (0 /3)		23	24	25
					24	1.60E+01(2 /3) (1.30E+01 - 1.90E+01)					
CLAMS (PCI/KG(WET))	GAMMA	K-40	12	2.92E+02	1.35E+03 (9 /9) (7.20E+02 - 1.80E+03)		1.47E+03(3 /3) (7.00E+02 - 1.90E+03)		23	24	25
					24	1.38E+03(3 /3) (8.50E+02 - 1.70E+03)					
CLAMS (PCI/KG(WET))	GAMMA	BE-7	12	8.52E+01	< LLD (0 /9)		< LLD (0 /3)		23	24	25
					25	< LLD (0 /3)					
CLAMS (PCI/KG(WET))	GAMMA	ZR-95	12	1.83E+01	< LLD (0 /9)		< LLD (0 /3)		23	24	25
					25	< LLD (0 /3)					
CLAMS (PCI/KG(WET))	GAMMA	NB-95	12	9.67E+00	< LLD (0 /9)		< LLD (0 /3)		23	24	25
					25	< LLD (0 /3)					
CLAMS (PCI/KG(WET))	GAMMA	CE-141	12	1.97E+01	< LLD (0 /9)		< LLD (0 /3)		23	24	25
					25	< LLD (0 /3)					

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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))	GAMMA	RU-103	12	1.05E+01	< LLD	(0 / 9)	< LLD	(0 / 3)	23	24	25
							25	< LLD (0 / 3)			
CLAMS (PCI/KG(WET))	GAMMA	BA-140	12	5.15E+01	< LLD	(0 / 9)	< LLD	(0 / 3)	23	24	25
							25	< LLD (0 / 3)			
CLAMS (PCI/KG(WET))	GAMMA	LA-140	12	2.17E+01	< LLD	(0 / 9)	< LLD	(0 / 3)	23	24	25
							25	< LLD (0 / 3)			
CLAMS (PCI/KG(WET))	GAMMA	RA-226	12	1.71E+02	< LLD	(0 / 9)	4.70E+02(1 / 3) (4.70E+02 - 4.70E+02)		23	24	25
							25	< LLD (0 / 3)			
CLAMS (PCI/KG(WET))	GAMMA	TH-228	12	1.55E+01	< LLD	(0 / 9)	< LLD	(0 / 3)	23	24	25
							25	< LLD (0 / 3)			
CLAMS (PCI/KG(WET))	GAMMA	I-131	12	4.21E+01	< LLD	(0 / 9)	< LLD	(0 / 3)	23	24	25
							25	< LLD (0 / 3)			

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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))	GAMMA	RU-106	12	7.04E+01	< LLD	(0 / 9)	< LLD	(0 / 3)	23	24	25		
						25	< LLD (0 / 3)						
CLAMS (PCI/KG(WET))	GAMMA	CS-137	12	9.26E+00	< LLD	(0 / 9)	< LLD	(0 / 3)	23	24	25		
						25	< LLD (0 / 3)						
CLAMS (PCI/KG(WET))	STRONTIUM-89		12	6.56E+00	< LLD	(0 / 9)	< LLD	(0 / 3)	23	24	25		
						25	< LLD (0 / 3)						
CLAMS (PCI/KG(WET))	STRONTIUM-90		12	2.34E+00	< LLD	(0 / 9)	< LLD	(0 / 3)	23	24	25		
						25	< LLD (0 / 3)						
SOIL (PCI/KG(DRY))	GROSS BETA		35	2.03E+03		7.28E+03 (35 / 35) (2.76E+03 - 1.92E+04)	(. / .) (. - .)		1	2	3	4	5
						5	9.69E+03 (7 / 7) (2.90E+03 - 1.92E+04)						
SOIL (PCI/KG(DRY))	GAMMA	CE-144	15	1.41E+02	< LLD	(0 / 15)	(. / .) (. - .)		1	2	3	4	5
						5	< LLD (0 / 3)						

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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
SOIL (PCI/KG(DRY))	GAMMA	CS-134	15	2.00E+01	< LLD (0 /15)		(. . - . / .)		1 2 3 4 5
						5	< LLD (0 /3)		
SOIL (PCI/KG(DRY))	GAMMA	CO-58	15	1.97E+01	< LLD (0 /15)		(. . - . / .)		1 2 3 4 5
						5	< LLD (0 /3)		
SOIL (PCI/KG(DRY))	GAMMA	MN-54	15	1.79E+01	< LLD (0 /15)		(. . - . / .)		1 2 3 4 5
						5	< LLD (0 /3)		
SOIL (PCI/KG(DRY))	GAMMA	FE-59	15	4.35E+01	< LLD (0 /15)		(. . - . / .)		1 2 3 4 5
						5	< LLD (0 /3)		
SOIL (PCI/KG(DRY))	GAMMA	ZN-65	15	3.88E+01	< LLD (0 /15)		(. . - . / .)		1 2 3 4 5
						5	< LLD (0 /3)		
SOIL (PCI/KG(DRY))	GAMMA	CO-60	15	1.80E+01	< LLD (0 /15)		(. . - . / .)		1 2 3 4 5
						5	< LLD (0 /3)		

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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))	GAMMA	K-40	15	4.25E+02	1.14E+03 (15 /15) (3.20E+02 - 2.10E+03)	(. . - . .)	1	1.73E+03(3 /3) (1.20E+03 - 2.10E+03)	1 2 3 4 5
SOIL (PCI/KG(DRY))	GAMMA	BE-7	15	2.18E+02	4.87E+02 (3 /15) (1.80E+02 - 7.20E+02)	(. . - . .)	2	6.40E+02(2 /3) (5.60E+02 - 7.20E+02)	1 2 3 4 5
SOIL (PCI/KG(DRY))	GAMMA	ZR-95	15	4.51E+01	< LLD (0 /15)	(. . - . .)	5	< LLD (0 /3)	1 2 3 4 5
SOIL (PCI/KG(DRY))	GAMMA	NB-95	15	2.38E+01	< LLD (0 /15)	(. . - . .)	5	< LLD (0 /3)	1 2 3 4 5
SOIL (PCI/KG(DRY))	GAMMA	CE-141	15	5.25E+01	< LLD (0 /15)	(. . - . .)	5	< LLD (0 /3)	1 2 3 4 5
SOIL (PCI/KG(DRY))	GAMMA	RU-103	15	2.61E+01	< LLD (0 /15)	(. . - . .)	5	< LLD (0 /3)	1 2 3 4 5

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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))	GAMMA	BA-140	15	1.62E+02	< LLD	(0 /15)	(. . . (. / .))	1	2	3	4	5
							< LLD (0 /3)					
SOIL (PCI/KG(DRY))	GAMMA	LA-140	15	7.04E+01	< LLD	(0 /15)	(. . . (. / .))	1	2	3	4	5
							< LLD (0 /3)					
SOIL (PCI/KG(DRY))	GAMMA	RA-226	15	3.51E+02	8.47E+02 (7 /15) (5.50E+02 - 1.50E+03)	(. . . (. / .))	(. . . (. / .))	1	2	3	4	5
							1.30E+03(2 /3) (1.10E+03 - 1.50E+03)					
SOIL (PCI/KG(DRY))	GAMMA	TH-228	15	4.37E+01	2.85E+02 (15 /15) (8.80E+01 - 4.30E+02)	(. . . (. / .))	(. . . (. / .))	1	2	3	4	5
							3.40E+02(3 /3) (2.90E+02 - 3.90E+02)					
SOIL (PCI/KG(DRY))	GAMMA	I-131	15	1.72E+02	< LLD	(0 /15)	(. . . (. / .))	1	2	3	4	5
							< LLD (0 /3)					
SOIL (PCI/KG(DRY))	GAMMA	RU-106	15	1.62E+02	< LLD	(0 /15)	(. . . (. / .))	1	2	3	4	5
							< LLD (0 /3)					

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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))	GAMMA	CS-137	15	5.67E+01	8.00E+02 (14 /15) (4.80E+01 - 2.20E+03)	(. . - . .)	1 2 3 4 5
					5	1.45E+03(3 /3) (5.50E+02 - 2.20E+03)	
PASTURE (PCI/KG(WET))	GROSS BETA		9	7.79E+01	7.57E+03 (9 /9) (4.70E+03 - 1.22E+04)	(. . - . .)	28 29 30
					30	8.68E+03(3 /3) (4.70E+03 - 1.22E+04)	
PASTURE (MG/GM(WET))	CALCIUM BY AA		9	1.44E-01	2.02E+00 (8 /9) (2.96E-01 - 5.44E+00)	(. . - . .)	28 29 30
					28	2.49E+00(3 /3) (3.76E-01 - 5.44E+00)	
PASTURE (PCI/KG(WET))	GAMMA	CE-144	9	3.60E+02	< LLD. (0 /9)	(. . - . .)	28 29 30
					30	< LLD (0 /3)	
PASTURE (PCI/KG(WET))	GAMMA	CS-134	9	5.03E+01	< LLD (0 /9)	(. . - . .)	28 29 30
					30	< LLD (0 /3)	
PASTURE (PCI/KG(WET))	GAMMA	CO-58	9	4.96E+01	< LLD (0 /9)	(. . - . .)	28 29 30
					30	< LLD (0 /3)	

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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))	GAMMA	MN-54	9	4.66E+01	< LLD (0 / 9)	30	(. . .) < LLD (0 / 3)		28 29 30
PASTURE (PCI/KG(WET))	GAMMA	FE-59	9	1.10E+02	< LLD (0 / 9)	30	(. . .) < LLD (0 / 3)		28 29 30
PASTURE (PCI/KG(WET))	GAMMA	ZN-65	9	9.41E+01	< LLD (0 / 9)	30	(. . .) < LLD (0 / 3)		28 29 30
PASTURE (PCI/KG(WET))	GAMMA	CO-60	9	4.68E+01	< LLD (0 / 9)	30	(. . .) < LLD (0 / 3)		28 29 30
PASTURE (PCI/KG(WET))	GAMMA	K-40	9	8.93E+02	8.13E+02 (3 / 9) (5.70E+02 - 1.20E+03)	28	(. . .) 1.20E+03 (1 / 3) (1.20E+03 - 1.20E+03)		28 29 30
PASTURE (PCI/KG(WET))	GAMMA	BE-7	9	1.38E+03	1.44E+04 (9 / 9) (6.30E+03 - 2.40E+04)	30	(. . .) 1.80E+04 (3 / 3) (1.20E+04 - 2.20E+04)		28 29 30

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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))	GAMMA	ZR-95	9	1.08E+02	< LLD (0 / 9)	30	(. . - . / .) < LLD (0 / 3)		28 29 30
PASTURE (PCI/KG(WET))	GAMMA	NB-95	9	5.47E+01	< LLD (0 / 9)	30	(. . - . / .) < LLD (0 / 3)		28 29 30
PASTURE (PCI/KG(WET))	GAMMA	CE-141	9	1.20E+02	< LLD (0 / 9)	30	(. . - . / .) < LLD (0 / 3)		28 29 30
PASTURE (PCI/KG(WET))	GAMMA	RU-103	9	6.47E+01	< LLD (0 / 9)	30	(. . - . / .) < LLD (0 / 3)		28 29 30
PASTURE (PCI/KG(WET))	GAMMA	BA-140	9	3.57E+02	< LLD (0 / 9)	30	(. . - . / .) < LLD (0 / 3)		28 29 30
PASTURE (PCI/KG(WET))	GAMMA	LA-140	9	1.41E+02	< LLD (0 / 9)	30	(. . - . / .) < LLD (0 / 3)		28 29 30

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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))	GAMMA	RA-226	9	1.04E+03	< LLD	(0 / 9)	(. . .)	28 29 30	
							30	< LLD (0 / 3)	
PASTURE (PCI/KG(WET))	GAMMA	TH-228	9	9.86E+01	< LLD	(0 / 9)	(. . .)	28 29 30	
							30	< LLD (0 / 3)	
PASTURE (PCI/KG(WET))	GAMMA	I-131	9	3.18E+02	< LLD	(0 / 9)	(. . .)	28 29 30	
							30	< LLD (0 / 3)	
PASTURE (PCI/KG(WET))	GAMMA	RU-106	9	4.27E+02	< LLD	(0 / 9)	(. . .)	28 29 30	
							30	< LLD (0 / 3)	
PASTURE (PCI/KG(WET))	GAMMA	CS-137	9	6.30E+01	1.51E+02 (7 / 9) (6.60E+01 - 3.10E+02)		(. . .)	28 29 30	
							29	1.92E+02 (2 / 3) (7.40E+01 - 3.10E+02)	
PASTURE (PCI/KG(WET))	STRONTIUM-89		9	2.71E+01	< LLD	(0 / 9)	(. . .)	28 29 30	
							30	< LLD (0 / 3)	

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					STATION	STATION-MEAN(N/TOTAL) RANGE	
PASTURE (PCI/KG(WET))	STRONTIUM-90		9	6.77E+00	1.62E+02 (9 /9) (2.30E+01 - 3.35E+02)	(. / .) (2.01E+02(3 /3) (7.95E+01 - 3.10E+02)	28 29 30
					29		
SEDIMENT (PCI/KG(DRY))	GROSS ALPHA		24	4.13E+03	4.73E+03 (4 /21) (4.04E+03 - 5.70E+03)	4.07E+03(2 /3) (4.04E+03 - 4.10E+03)	23 24 25 26 27 32 33
					27	5.70E+03(1 /3) (5.70E+03 - 5.70E+03)	
SEDIMENT (PCI/KG(DRY))	GROSS BETA		24	2.23E+03	1.25E+04 (20 /21) (2.81E+03 - 3.05E+04)	2.35E+04(3 /3) (1.60E+04 - 2.94E+04)	23 24 25 26 27 32 33
					33	2.52E+04(3 /3) (2.00E+04 - 3.05E+04)	
SEDIMENT (PCI/KG(DRY))	GAMMA	CE-144	42	1.55E+02	< LLD (0 /36)	< LLD (0 /6)	23 24 25 26 27 32 33
					33	< LLD (0 /6)	
SEDIMENT (PCI/KG(DRY))	GAMMA	CS-134	42	2.82E+01	< LLD (0 /36)	< LLD (0 /6)	23 24 25 26 27 32 33
					33	< LLD (0 /6)	
SEDIMENT (PCI/KG(DRY))	GAMMA	CO-58	42	2.88E+01	< LLD (0 /36)	< LLD (0 /6)	23 24 25 26 27 32 33
					33	< LLD (0 /6)	

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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))	GAMMA	MN-54	42	2.59E+01	3.60E+01 (1 /36) (3.60E+01 - 3.60E+01)		< LLD (0 /6)		23 32	24 33	25	26	27
					33	3.60E+01(1 /6) (3.60E+01 - 3.60E+01)							
SEDIMENT (PCI/KG(DRY))	GAMMA	FE-59	42	7.00E+01	< LLD (0 /36)		< LLD (0 /6)		23 32	24 33	25	26	27
					33	< LLD (0 /6)							
SEDIMENT (PCI/KG(DRY))	GAMMA	ZN-65	42	5.82E+01	< LLD (0 /36)		< LLD (0 /6)		23 32	24 33	25	26	27
					33	< LLD (0 /6)							
SEDIMENT (PCI/KG(DRY))	GAMMA	CO-60	42	3.61E+01	3.16E+02 (16 /36) (1.90E+01 - 7.80E+02)		< LLD (0 /6)		23 32	24 33	25	26	27
					33	6.57E+02(6 /6) (4.60E+02 - 7.80E+02)							
SEDIMENT (PCI/KG(DRY))	GAMMA	K-40	42	8.41E+02	6.18E+03 (36 /36) (4.70E+02 - 1.70E+04)		1.14E+04(6 /6) (5.50E+03 - 1.50E+04)		23 32	24 33	25	26	27
					33	1.52E+04(6 /6) (1.40E+04 - 1.70E+04)							
SEDIMENT (PCI/KG(DRY))	GAMMA	BE-7	42	2.82E+02	6.55E+02 (8 /36) (3.10E+02 - 1.50E+03)		< LLD (0 /6)		23 32	24 33	25	26	27
					32	1.00E+03(3 /6) (4.10E+02 - 1.50E+03)							

TABLE 14
RADIOLOGICAL ENVIRONMENTAL MONITORING PROGRAM SUMMARY
OYSTER CREEK NUCLEAR GENERATING STATION
DECEMBER, 1983 THROUGH MAY, 1984
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))	GAMMA	ZR-95	42	6.48E+01	< LLD (0 /36)		< LLD (0 /6)		23 32	24 33	25	26	27
						33	< LLD (0 /6)						
SEDIMENT (PCI/KG(DRY))	GAMMA	NB-95	42	3.34E+01	< LLD (0 /36)		< LLD (0 /6)		23 32	24 33	25	26	27
						33	< LLD (0 /6)						
SEDIMENT (PCI/KG(DRY))	GAMMA	CE-141	42	5.95E+01	< LLD (0 /36)		< LLD (0 /6)		23 32	24 33	25	26	27
						33	< LLD (0 /6)						
SEDIMENT (PCI/KG(DRY))	GAMMA	RU-103	42	3.45E+01	< LLD (0 /36)		< LLD (0 /6)		23 32	24 33	25	26	27
						33	< LLD (0 /6)						
SEDIMENT (PCI/KG(DRY))	GAMMA	BA-140	42	2.56E+02	< LLD (0 /36)		< LLD (0 /6)		23 32	24 33	25	26	27
						33	< LLD (0 /6)						
SEDIMENT (PCI/KG(DRY))	GAMMA	LA-140	42	1.11E+02	< LLD (0 /36)		< LLD (0 /6)		23 32	24 33	25	26	27
						33	< LLD (0 /6)						

TABLE 14
RADIOLOGICAL ENVIRONMENTAL MONITORING PROGRAM SUMMARY
OYSTER CREEK NUCLEAR GENERATING STATION
DECEMBER, 1983 THROUGH MAY, 1984
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))	GAMMA	RA-226	42	4.81E+02	1.16E+03 (29 /36) (5.10E+02 - 2.70E+03)	7.96E+02(5 /6) (6.40E+02 - 1.00E+03)	23 24 25 26 27 32 33
					33	1.80E+03(6 /6) (1.10E+03 - 2.70E+03)	
SEDIMENT (PCI/KG(DRY))	GAMMA	TH-228	42	5.99E+01	4.87E+02 (36 /36) (9.50E+01 - 9.50E+02)	5.17E+02(6 /6) (3.30E+02 - 7.90E+02)	23 24 25 26 27 32 33
					33	8.88E+02(6 /6) (7.70E+02 - 9.50E+02)	
SEDIMENT (PCI/KG(DRY))	GAMMA	I-131	42	2.69E+02	< LLD (0 /36)	< LLD (0 /6)	23 24 25 26 27 32 33
					33	< LLD (0 /6)	
SEDIMENT (PCI/KG(DRY))	GAMMA	RU-106	42	2.16E+02	< LLD (0 /36)	< LLD (0 /6)	23 24 25 26 27 32 33
					33	< LLD (0 /6)	
SEDIMENT (PCI/KG(DRY))	GAMMA	CS-137	42	3.64E+01	2.28E+02 (22 /36) (2.90E+01 - 6.00E+02)	1.77E+02(6 /6) (3.50E+01 - 5.60E+02)	23 24 25 26 27 32 33
					26	3.70E+02(3 /3) (2.50E+02 - 6.00E+02)	
SEDIMENT (PCI/KG(DRY))	STRONTIUM-89		24	8.02E+01	< LLD (0 /21)	< LLD (0 /3)	23 24 25 26 27 32 33
					33	< LLD (0 /3)	

TABLE 14
 RADIOLOGICAL ENVIRONMENTAL MONITORING PROGRAM SUMMARY
 OYSTER CREEK NUCLEAR GENERATING STATION
 DECEMBER, 1983 THROUGH MAY, 1984
 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))	STRONTIUM-90	24	3.70E+01	1.35E+02 (2 /21) (1.00E+02 - 1.70E+02)		< LLD (0 /3)	23	24	25	26	27
					23	1.70E+02(1 /3) (1.70E+02 - 1.70E+02)	32	33			

TABLE 15
RADIOLOGICAL ENVIRONMENTAL MONITORING PROGRAM SUMMARY
OYSTER CREEK NUCLEAR GENERATING STATION
DECEMBER, 1983 THROUGH FEBRUARY, 1984
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		16	3.01E+01	4.03E+03 (16 /16) (1.50E+03 - 1.15E+04)	(. . - . .)	1	2	3	4	5
AIR PARTICULATE (PCI/M3)	GROSS ALPHA		52	1.17E-03	1.71E-03 (27 /31) (8.70E-04 - 3.10E-03)	1.60E-03(16 /21) (8.58E-04 - 3.30E-03)	1	2	3	4	5
AIR PARTICULATE (PCI/M3)	GROSS BETA		52	4.58E-03	1.93E-02 (31 /31) (9.01E-03 - 7.20E-02)	1.38E-02(21 /21) (4.20E-03 - 2.20E-02)	1	2	3	4	5
AIR PARTICULATE (PCI/M3)	GAMMA	CE-144	61	2.75E-02	< LLD (0 /38)	< LLD (0 /23)	1	2	3	4	5
AIR PARTICULATE (PCI/M3)	GAMMA	CS-134	61	5.18E-03	< LLD (0 /38)	< LLD (0 /23)	1	2	3	4	5
AIR PARTICULATE (PCI/M3)	GAMMA	CO-58	61	5.60E-03	< LLD (0 /38)	< LLD (0 /23)	1	2	3	4	5
AIR PARTICULATE (PCI/M3)	GAMMA	MN-54	61	4.75E-03	< LLD (0 /38)	< LLD (0 /23)	1	2	3	4	5
AIR PARTICULATE (PCI/M3)	GAMMA	FE-59	61	1.27E-02	< LLD (0 /38)	< LLD (0 /23)	1	2	3	4	5
AIR PARTICULATE (PCI/M3)	GAMMA	ZN-65	61	1.14E-02	< LLD (0 /38)	< LLD (0 /23)	1	2	3	4	5
AIR PARTICULATE (PCI/M3)	GAMMA	CO-60	61	5.59E-03	< LLD (0 /38)	< LLD (0 /23)	1	2	3	4	5

TABLE 15
RADIOLOGICAL ENVIRONMENTAL MONITORING PROGRAM SUMMARY
OYSTER CREEK NUCLEAR GENERATING STATION
DECEMBER, 1983 THROUGH FEBRUARY, 1984
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)	GAMMA	K-40	61	1.14E-01	1.39E-01 (4 /38) (6.60E-02 - 2.20E-01)	< LLD (0 /23)	1 2 3 4 5
AIR PARTICULATE (PCI/M3)	GAMMA	BE-7	61	5.93E-02	8.51E-02 (19 /38) (8.70E-03 - 1.50E-01)	8.00E-02(9 /23) (4.20E-02 - 1.70E-01)	1 2 3 4 5
AIR PARTICULATE (PCI/M3)	GAMMA	ZR-95	61	1.25E-02	< LLD (0 /38)	< LLD (0 /23)	1 2 3 4 5
AIR PARTICULATE (PCI/M3)	GAMMA	NB-95	61	5.58E-03	< LLD (0 /38)	< LLD (0 /23)	1 2 3 4 5
AIR PARTICULATE (PCI/M3)	GAMMA	CE-141	61	9.11E-03	< LLD (0 /38)	< LLD (0 /23)	1 2 3 4 5
AIR PARTICULATE (PCI/M3)	GAMMA	RU-103	61	6.19E-03	< LLD (0 /38)	< LLD (0 /23)	1 2 3 4 5
AIR PARTICULATE (PCI/M3)	GAMMA	BA-140	61	3.55E-02	< LLD (0 /38)	< LLD (0 /23)	1 2 3 4 5
AIR PARTICULATE (PCI/M3)	GAMMA	LA-140	61	1.82E-02	< LLD (0 /38)	< LLD (0 /23)	1 2 3 4 5
AIR PARTICULATE (PCI/M3)	GAMMA	RA-226	61	8.13E-02	< LLD (0 /38)	< LLD (0 /23)	1 2 3 4 5
AIR PARTICULATE (PCI/M3)	GAMMA	TH-228	61	8.29E-03	< LLD (0 /38)	< LLD (0 /23)	1 2 3 4 5

TABLE 15
RADIOLOGICAL ENVIRONMENTAL MONITORING PROGRAM SUMMARY
OYSTER CREEK NUCLEAR GENERATING STATION
DECEMBER, 1983 THROUGH FEBRUARY, 1984
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)	GAMMA	I-131	61	3.23E-02	< LLD (0 /38)	< LLD (0 /23)	1 2 3 4 5
AIR PARTICULATE (PCI/M3)	GAMMA	RU-106	61	4.32E-02	< LLD (0 /38)	< LLD (0 /23)	1 2 3 4 5
AIR PARTICULATE (PCI/M3)	GAMMA	CS-137	61	5.39E-03	< LLD (0 /38)	< LLD (0 /23)	1 2 3 4 5
AIR PARTICULATE (PCI/M3)	STRONTIUM-89		12	4.20E-04	< LLD (0 /6)	< LLD (0 /6)	1 2 3 4 5
AIR PARTICULATE (PCI/M3)	STRONTIUM-90		12	2.02E-04	2.70E-04 (1 /6) (2.70E-04 - 2.70E-04)	< LLD (0 /6)	1 2 3 4 5
PRECIPITATION (PCI/L)	GROSS BETA-SS		28	7.60E-01	2.35E+00 (6 /16) (1.43E+00 - 3.24E+00)	1.53E+00(5 /12) (7.10E-01 - 2.01E+00)	1 2 3 4 5
PRECIPITATION (PCI/L)	GROSS BETA-DS		28	9.14E-01	3.33E+00 (15 /16) (1.19E+00 - 7.20E+00)	3.35E+00(12 /12) (1.43E+00 - 6.80E+00)	1 2 3 4 5
PRECIPITATION (PCI/L)	GAMMA	CE-144	32	3.50E+01	< LLD (0 /18)	< LLD (0 /14)	1 2 3 4 5
PRECIPITATION (PCI/L)	GAMMA	CS-134	32	4.46E+00	< LLD (0 /18)	< LLD (0 /14)	1 2 3 4 5
PRECIPITATION (PCI/L)	GAMMA	CO-58	32	4.16E+00	< LLD (0 /18)	< LLD (0 /14)	1 2 3 4 5

TABLE 15
RADIOLOGICAL ENVIRONMENTAL MONITORING PROGRAM SUMMARY
OYSTER CREEK NUCLEAR GENERATING STATION
DECEMBER, 1983 THROUGH FEBRUARY, 1984
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)	GAMMA	MN-54	32	4.02E+00	< LLD (0 /18)	< LLD (0 /14)	1 2 3 4 5
PRECIPITATION (PCI/L)	GAMMA	FE-59	32	8.70E+00	< LLD (0 /18)	< LLD (0 /14)	1 2 3 4 5
PRECIPITATION (PCI/L)	GAMMA	ZN-65	32	8.47E+00	< LLD (0 /18)	< LLD (0 /14)	1 2 3 4 5
PRECIPITATION (PCI/L)	GAMMA	CO-60	32	4.17E+00	< LLD (0 /18)	< LLD (0 /14)	1 2 3 4 5
PRECIPITATION (PCI/L)	GAMMA	K-40	32	8.29E+01	< LLD (0 /18)	< LLD (0 /14)	1 2 3 4 5
PRECIPITATION (PCI/L)	GAMMA	BE-7	32	4.46E+01	5.50E+01 (2 /18) (5.50E+01 - 5.50E+01)	4.75E+01(2 /14) (4.50E+01 - 5.00E+01)	1 2 3 4 5
PRECIPITATION (PCI/L)	GAMMA	ZR-95	32	8.92E+00	< LLD (0 /18)	< LLD (0 /14)	1 2 3 4 5
PRECIPITATION (PCI/L)	GAMMA	NB-95	32	5.51E+00	< LLD (0 /18)	< LLD (0 /14)	1 2 3 4 5
PRECIPITATION (PCI/L)	GAMMA	CE-141	32	9.67E+00	< LLD (0 /18)	< LLD (0 /14)	1 2 3 4 5
PRECIPITATION (PCI/L)	GAMMA	RU-103	32	5.07E+00	< LLD (0 /18)	< LLD (0 /14)	1 2 3 4 5

TABLE 15
 RADIOLOGICAL ENVIRONMENTAL MONITORING PROGRAM SUMMARY
 OYSTER CREEK NUCLEAR GENERATING STATION
 DECEMBER, 1983 THROUGH FEBRUARY, 1984
 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)	GAMMA	BA-140	32	1.97E+01	< LLD (0 /18)	< LLD (0 /14)	1 2 3 4 5
PRECIPITATION (PCI/L)	GAMMA	LA-140	32	8.22E+00	< LLD (0 /18)	< LLD (0 /14)	1 2 3 4 5
PRECIPITATION (PCI/L)	GAMMA	RA-226	32	9.15E+01	< LLD (0 /18)	< LLD (0 /14)	1 2 3 4 5
PRECIPITATION (PCI/L)	GAMMA	TH-228	32	8.67E+00	< LLD (0 /18)	< LLD (0 /14)	1 2 3 4 5
PRECIPITATION (PCI/L)	GAMMA	I-131	31	1.33E+01	< LLD (0 /17)	< LLD (0 /14)	1 2 3 4 5
PRECIPITATION (PCI/L)	GAMMA	RU-106	32	3.69E+01	< LLD (0 /18)	< LLD (0 /14)	1 2 3 4 5
PRECIPITATION (PCI/L)	GAMMA	CS-137	32	4.74E+00	< LLD (0 /18)	< LLD (0 /14)	1 2 3 4 5
PRECIPITATION (PCI/L)	TRITIUM		28	1.20E+02	2.03E+02 (12 /16) (6.20E+01 - 4.19E+02)	1.44E+02(10 /12) (6.10E+01 - 3.40E+02)	1 2 3 4 5
PRECIPITATION (PCI/L)	STRONTIUM-89		28	1.94E+00	< LLD (0 /16)	< LLD (0 /12)	1 2 3 4 5
PRECIPITATION (PCI/L)	STRONTIUM-90		28	4.70E-01	< LLD (0 /16)	< LLD (0 /12)	1 2 3 4 5

TABLE 15
RADIOLOGICAL ENVIRONMENTAL MONITORING PROGRAM SUMMARY
OYSTER CREEK NUCLEAR GENERATING STATION
DECEMBER, 1983 THROUGH FEBRUARY, 1984
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		52	2.25E-02	< LLD (0 /31)	< LLD (0 /21)	1	2	3	4	5
SURFACE WATER (PCI/L)	GROSS ALPHA-SS		21	4.19E-01	< LLD (0 /19)	< LLD (0 /2)	23 32	24 33	25	26	27
SURFACE WATER (PCI/L)	GROSS ALPHA-DS		21	7.45E+01	1.99E+00 (5 /19) (7.70E-01 - 3.34E+00)	< LLD (0 /2)	23 32	24 33	25	26	27
SURFACE WATER (PCI/L)	GROSS BETA-SS		21	7.89E-01	3.22E+00 (1 /19) (3.22E+00 - 3.22E+00)	< LLD (0 /2)	23 32	24 33	25	26	27
SURFACE WATER (PCI/L)	GROSS BETA-DS		21	2.62E+01	1.89E+02 (19 /19) (1.20E+00 - 4.62E+02)	3.46E+02(2 /2) (3.10E+02 - 3.82E+02)	23 32	24 33	25	26	27
SURFACE WATER (MG/L)	CALCIUM BY AA		21	1.00E+01	6.68E+02 (17 /19) (1.21E+01 - 3.32E+03)	5.71E+02(2 /2) (4.26E+02 - 7.16E+02)	23 32	24 33	25	26	27
SURFACE WATER (PCI/L)	GAMMA	CE-144	27	3.21E+01	< LLD (0 /25)	< LLD (0 /2)	23 32	24 33	25	26	27
SURFACE WATER (PCI/L)	GAMMA	CS-134	27	4.26E+00	< LLD (0 /25)	< LLD (0 /2)	23 32	24 33	25	26	27
SURFACE WATER (PCI/L)	GAMMA	CO-58	27	3.97E+00	< LLD (0 /25)	< LLD (0 /2)	23 32	24 33	25	26	27
SURFACE WATER (PCI/L)	GAMMA	MN-54	27	3.81E+00	< LLD (0 /25)	< LLD (0 /2)	23 32	24 33	25	26	27

TABLE 15
RADIOLOGICAL ENVIRONMENTAL MONITORING PROGRAM SUMMARY
OYSTER CREEK NUCLEAR GENERATING STATION
DECEMBER, 1983 THROUGH FEBRUARY, 1984
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)	GAMMA	FE-59	27	8.36E+00	< LLD (0 /25)	< LLD (0 /2)	23 24 25 26 27 32 33
SURFACE WATER (PCI/L)	GAMMA	ZN-65	27	8.26E+00	< LLD (0 /25)	< LLD (0 /2)	23 24 25 26 27 32 33
SURFACE WATER (PCI/L)	GAMMA	CO-60	27	4.20E+00	< LLD (0 /25)	< LLD (0 /2)	23 24 25 26 27 32 33
SURFACE WATER (PCI/L)	GAMMA	K-40	27	9.01E+01	1.74E+02 (15 /25) (4.70E+01 - 2.70E+02)	1.75E+02(2 /2) (1.70E+02 - 1.80E+02)	23 24 25 26 27 32 33
SURFACE WATER (PCI/L)	GAMMA	BE-7	27	3.79E+01	< LLD (0 /25)	< LLD (0 /2)	23 24 25 26 27 32 33
SURFACE WATER (PCI/L)	GAMMA	ZR-95	27	8.64E+00	< LLD (0 /25)	< LLD (0 /2)	23 24 25 26 27 32 33
SURFACE WATER (PCI/L)	GAMMA	NB-95	27	4.29E+00	< LLD (0 /25)	< LLD (0 /2)	23 24 25 26 27 32 33
SURFACE WATER (PCI/L)	GAMMA	CE-141	27	8.86E+00	< LLD (0 /25)	< LLD (0 /2)	23 24 25 26 27 32 33
SURFACE WATER (PCI/L)	GAMMA	RU-103	27	4.94E+00	< LLD (0 /25)	< LLD (0 /2)	23 24 25 26 27 32 33
SURFACE WATER (PCI/L)	GAMMA	BA-140	27	1.91E+01	< LLD (0 /25)	< LLD (0 /2)	23 24 25 26 27 32 33

TABLE 15
RADIOLOGICAL ENVIRONMENTAL MONITORING PROGRAM SUMMARY
OYSTER CREEK NUCLEAR GENERATING STATION
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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)	GAMMA	LA-140	27	7.42E+00	< LLD (0 /25)	< LLD (0 /2)	23 24 25 26 27 32 33
SURFACE WATER (PCI/L)	GAMMA	RA-226	27	8.96E+01	< LLD (0 /25)	< LLD (0 /2)	23 24 25 26 27 32 33
SURFACE WATER (PCI/L)	GAMMA	TH-228	27	8.42E+00	< LLD (0 /25)	< LLD (0 /2)	23 24 25 26 27 32 33
SURFACE WATER (PCI/L)	GAMMA	I-131	27	1.27E+01	< LLD (0 /25)	< LLD (0 /2)	23 24 25 26 27 32 33
SURFACE WATER (PCI/L)	GAMMA	RU-106	27	3.63E+01	< LLD (0 /25)	< LLD (0 /2)	23 24 25 26 27 32 33
SURFACE WATER (PCI/L)	GAMMA	CS-137	27	4.44E+00	< LLD (0 /25)	< LLD (0 /2)	23 24 25 26 27 32 33
SURFACE WATER (PCI/L)	TRITIUM		21	1.16E+02	2.31E+02 (15 /19) (8.40E+01 - 3.64E+02)	2.41E+02(2 /2) (1.18E+02 - 3.64E+02)	23 24 25 26 27 32 33
SURFACE WATER (PCI/L)	RADIUM-226		21	2.30E-01	1.06E+00 (6 /19) (3.03E-01 - 2.10E+00)	< LLD (0 /2)	23 24 25 26 27 32 33
SURFACE WATER (PCI/L)	RADIUM-228		21	1.85E-01	3.81E-01 (12 /19) (1.77E-01 - 1.01E+00)	5.07E-01(1 /2) (5.07E-01 - 5.07E-01)	23 24 25 26 27 32 33
SURFACE WATER (PCI/L)	STRONTIUM-89		21	1.06E+00	< LLD (0 /19)	< LLD (0 /2)	23 24 25 26 27 32 33

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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)	STRONTIUM-90		21	4.67E-01	< LLD (0 /19)	< LLD (0 /2)	23 32	24 33	25	26	27
SURFACE WATER (PCI/L)	TOTAL URANIUM		21	3.40E-02	9.60E-01 (19 /19) (3.94E-02 - 2.84E+00)	1.48E+00(2 /2) (1.39E+00 - 1.58E+00)	23 32	24 33	25	26	27
WELL WATER (PCI/L)	GROSS ALPHA-SS		18	4.37E-01	< LLD (0 /15)	< LLD (0 /3)	1	19	20	21	22
WELL WATER (PCI/L)	GROSS ALPHA-DS		18	9.84E-01	1.80E+00 (10 /15) (9.45E-01 - 3.70E+00)	2.26E+00(3 /3) (1.70E+00 - 2.58E+00)	1	19	20	21	22
WELL WATER (PCI/L)	GROSS BETA-SS		18	8.27E-01	< LLD (0 /15)	< LLD (0 /3)	1	19	20	21	22
WELL WATER (PCI/L)	GROSS BETA-DS		18	1.10E+00	3.87E+00 (14 /15) (1.50E+00 - 7.40E+00)	3.16E+00(3 /3) (2.37E+00 - 4.10E+00)	1	19	20	21	22
WELL WATER (PCI/L)	POTASSIUM-40		6	2.00E-01	2.09E+00 (5 /5) (1.74E+00 - 2.41E+00)	8.30E-01(1 /1) (8.30E-01 - 8.30E-01)	1	19	20	21	22
WELL WATER (PCI/L)	GAMMA	CE-144	7	3.46E+01	< LLD (0 /6)	< LLD (0 /1)	1	19	20	21	22
WELL WATER (PCI/L)	GAMMA	CS-134	7	4.31E+00	< LLD (0 /6)	< LLD (0 /1)	1	19	20	21	22
WELL WATER (PCI/L)	GAMMA	CO-58	7	4.30E+00	< LLD (0 /6)	< LLD (0 /1)	1	19	20	21	22

TABLE 15
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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)	GAMMA	MN-54	7	3.94E+00	< LLD	(0 /6)	< LLD	(0 /1)	1	19	20	21	22
WELL WATER (PCI/L)	GAMMA	FE-59	7	9.33E+00	< LLD	(0 /6)	< LLD	(0 /1)	1	19	20	21	22
WELL WATER (PCI/L)	GAMMA	ZN-65	7	8.56E+00	< LLD	(0 /6)	< LLD	(0 /1)	1	19	20	21	22
WELL WATER (PCI/L)	GAMMA	CO-60	7	4.26E+00	< LLD	(0 /6)	< LLD	(0 /1)	1	19	20	21	22
WELL WATER (PCI/L)	GAMMA	K-40	7	7.23E+01	< LLD	(0 /6)	< LLD	(0 /1)	1	19	20	21	22
WELL WATER (PCI/L)	GAMMA	BE-7	7	4.41E+01	< LLD	(0 /6)	< LLD	(0 /1)	1	19	20	21	22
WELL WATER (PCI/L)	GAMMA	ZR-95	7	9.46E+00	< LLD	(0 /6)	< LLD	(0 /1)	1	19	20	21	22
WELL WATER (PCI/L)	GAMMA	NB-95	7	4.86E+00	< LLD	(0 /6)	< LLD	(0 /1)	1	19	20	21	22
WELL WATER (PCI/L)	GAMMA	CE-141	7	1.06E+01	< LLD	(0 /6)	< LLD	(0 /1)	1	19	20	21	22
WELL WATER (PCI/L)	GAMMA	RU-103	7	5.56E+00	< LLD	(0 /6)	< LLD	(0 /1)	1	19	20	21	22

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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)	GAMMA	BA-140	7	3.51E+01	< LLD (0 /6)	< LLD (0 /1)	1 19 20 21 22
WELL WATER (PCI/L)	GAMMA	LA-140	7	1.14E+01	< LLD (0 /6)	< LLD (0 /1)	1 19 20 21 22
WELL WATER (PCI/L)	GAMMA	RA-226	7	9.19E+01	< LLD (0 /6)	< LLD (0 /1)	1 19 20 21 22
WELL WATER (PCI/L)	GAMMA	TH-228	7	8.69E+00	< LLD (0 /6)	< LLD (0 /1)	1 19 20 21 22
WELL WATER (PCI/L)	GAMMA	I-131	7	2.20E+01	< LLD (0 /6)	< LLD (0 /1)	1 19 20 21 22
WELL WATER (PCI/L)	GAMMA	RU-106	7	3.70E+01	< LLD (0 /6)	< LLD (0 /1)	1 19 20 21 22
WELL WATER (PCI/L)	GAMMA	CS-137	7	4.46E+00	< LLD (0 /6)	< LLD (0 /1)	1 19 20 21 22
WELL WATER (PCI/L)	TRITIUM		6	1.21E+02	3.61E+02 (2 /5) (3.33E+02 - 3.90E+02)	7.40E+01(1 /1) (7.40E+01 - 7.40E+01)	1 19 20 21 22
WELL WATER (PCI/L)	RADIUM-226		6	4.92E-01	8.90E-01 (3 /5) (6.70E-01 - 1.16E+00)	9.36E-01(1 /1) (9.36E-01 - 9.36E-01)	1 19 20 21 22
WELL WATER (PCI/L)	RADIUM-228		6	2.51E-01	1.05E+00 (3 /5) (2.41E-01 - 2.43E+00)	< LLD (0 /1)	1 19 20 21 22

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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)	TOTAL URANIUM		6	3.40E-02	< LLD (0 /5)	7.48E-02(1 /1) (7.48E-02 - 7.48E-02)	1 19 20 21 22
CLAMS (PCI/KG(WET))	GROSS ALPHA		9	5.27E+01	7.82E+01 (3 /7) (5.66E+01 - 1.10E+02)	6.83E+01(1 /2) (6.83E+01 - 6.83E+01)	23 24 25
CLAMS (PCI/KG(WET))	GROSS BETA		9	5.89E+01	1.35E+03 (6 /7) (8.65E+02 - 1.60E+03)	1.43E+03(2 /2) (1.27E+03 - 1.60E+03)	23 24 25
CLAMS (MG/GM(WET))	CALCIUM BY AA		5	9.08E-02	1.04E+00 (3 /4) (8.84E-01 - 1.30E+00)	1.29E+00(1 /1) (1.29E+00 - 1.29E+00)	23 24 25
CLAMS (PCI/KG(WET))	GAMMA	CE-144	7	6.41E+01	< LLD (0 /5)	< LLD (0 /2)	23 24 25
CLAMS (PCI/KG(WET))	GAMMA	CS-134	7	9.16E+00	< LLD (0 /5)	< LLD (0 /2)	23 24 25
CLAMS (PCI/KG(WET))	GAMMA	CO-58	7	9.19E+00	< LLD (0 /5)	< LLD (0 /2)	23 24 25
CLAMS (PCI/KG(WET))	GAMMA	MN-54	7	8.27E+00	< LLD (0 /5)	< LLD (0 /2)	23 24 25
CLAMS (PCI/KG(WET))	GAMMA	FE-59	7	2.14E+01	< LLD (0 /5)	< LLD (0 /2)	23 24 25
CLAMS (PCI/KG(WET))	GAMMA	ZN-65	7	1.78E+01	< LLD (0 /5)	< LLD (0 /2)	23 24 25

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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))	GAMMA	CO-60	7	1.02E+01	1.65E+01 (4 /5) (1.30E+01 - 1.90E+01)	< LLD (0 /2)	23 24 25
CLAMS (PCI/KG(WET))	GAMMA	K-40	7	2.71E+02	1.10E+03 (5 /5) (7.20E+02 - 1.60E+03)	8.40E+02(2 /2) (7.00E+02 - 9.80E+02)	23 24 25
CLAMS (PCI/KG(WET))	GAMMA	BE-7	7	8.63E+01	< LLD (0 /5)	< LLD (0 /2)	23 24 25
CLAMS (PCI/KG(WET))	GAMMA	ZR-95	7	1.91E+01	< LLD (0 /5)	< LLD (0 /2)	23 24 25
CLAMS (PCI/KG(WET))	GAMMA	NB-95	7	9.71E+00	< LLD (0 /5)	< LLD (0 /2)	23 24 25
CLAMS (PCI/KG(WET))	GAMMA	CE-141	7	2.03E+01	< LLD (0 /5)	< LLD (0 /2)	23 24 25
CLAMS (PCI/KG(WET))	GAMMA	RU-103	7	1.11E+01	< LLD (0 /5)	< LLD (0 /2)	23 24 25
CLAMS (PCI/KG(WET))	GAMMA	BA-140	7	5.56E+01	< LLD (0 /5)	< LLD (0 /2)	23 24 25
CLAMS (PCI/KG(WET))	GAMMA	LA-140	7	2.31E+01	< LLD (0 /5)	< LLD (0 /2)	23 24 25
CLAMS (PCI/KG(WET))	GAMMA	RA-226	7	1.66E+02	< LLD (0 /5)	< LLD (0 /2)	23 24 25

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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))	GAMMA	TH-228	7	1.59E+01	< LLD (0 /5)	< LLD (0 /2)	23 24 25
CLAMS (PCI/KG(WET))	GAMMA	I-131	7	4.77E+01	< LLD (0 /5)	< LLD (0 /2)	23 24 25
CLAMS (PCI/KG(WET))	GAMMA	RU-106	7	7.04E+01	< LLD (0 /5)	< LLD (0 /2)	23 24 25
CLAMS (PCI/KG(WET))	GAMMA	CS-137	7	9.23E+00	< LLD (0 /5)	< LLD (0 /2)	23 24 25
CLAMS (PCI/KG(WET))	STRONTIUM-89		5	1.11E+01	< LLD (0 /4)	< LLD (0 /1)	23 24 25
CLAMS (PCI/KG(WET))	STRONTIUM-90		5	2.80E+00	< LLD (0 /4)	< LLD (0 /1)	23 24 25
SOIL (PCI/KG(DRY))	GROSS BETA		16	1.88E+03	7.69E+03 (16 /16) (2.90E+03 - 1.50E+04)	(. . - . .)	1 2 3 4 5
SOIL (PCI/KG(DRY))	GAMMA	CE-144	7	1.23E+02	< LLD (0 /7)	(. . - . .)	1 2 3 4 5
SOIL (PCI/KG(DRY))	GAMMA	CS-134	7	1.87E+01	< LLD (0 /7)	(. . - . .)	1 2 3 4 5
SOIL (PCI/KG(DRY))	GAMMA	CO-58	7	1.83E+01	< LLD (0 /7)	(. . - . .)	1 2 3 4 5

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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
SOIL (PCI/KG(DRY))	GAMMA	MN-54	7	1.65E+01	< LLD (0 / 7)	(. . - (. / .))	1 2 3 4 5
SOIL (PCI/KG(DRY))	GAMMA	FE-59	7	4.06E+01	< LLD (0 / 7)	(. . - (. / .))	1 2 3 4 5
SOIL (PCI/KG(DRY))	GAMMA	ZN-65	7	3.47E+01	< LLD (0 / 7)	(. . - (. / .))	1 2 3 4 5
SOIL (PCI/KG(DRY))	GAMMA	CO-60	7	1.64E+01	< LLD (0 / 7)	(. . - (. / .))	1 2 3 4 5
SOIL (PCI/KG(DRY))	GAMMA	K-40	7	4.37E+02	1.26E+03 (7 / 7) (8.30E+02 - 1.90E+03)	(. . - (. / .))	1 2 3 4 5
SOIL (PCI/KG(DRY))	GAMMA	BE-7	7	2.13E+02	5.60E+02 (1 / 7) (5.60E+02 - 5.60E+02)	(. . - (. / .))	1 2 3 4 5
SOIL (PCI/KG(DRY))	GAMMA	ZR-95	7	4.20E+01	< LLD (0 / 7)	(. . - (. / .))	1 2 3 4 5
SOIL (PCI/KG(DRY))	GAMMA	NB-95	7	2.21E+01	< LLD (0 / 7)	(. . - (. / .))	1 2 3 4 5
SOIL (PCI/KG(DRY))	GAMMA	CE-141	7	4.71E+01	< LLD (0 / 7)	(. . - (. / .))	1 2 3 4 5
SOIL (PCI/KG(DRY))	GAMMA	RU-103	7	2.57E+01	< LLD (0 / 7)	(. . - (. / .))	1 2 3 4 5

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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
SOIL (PCI/KG(DRY))	GAMMA	BA-140	7	1.81E+02	< LLD (0 / 7)	(. . - . / .)	1 2 3 4 5
SOIL (PCI/KG(DRY))	GAMMA	LA-140	7	7.51E+01	< LLD (0 / 7)	(. . - . / .)	1 2 3 4 5
SOIL (PCI/KG(DRY))	GAMMA	RA-226	7	3.74E+02	8.27E+02 (4 / 7) (5.60E+02 - 1.40E+03)	(. . - . / .)	1 2 3 4 5
SOIL (PCI/KG(DRY))	GAMMA	TH-228	7	4.36E+01	2.91E+02 (7 / 7) (8.80E+01 - 4.30E+02)	(. . - . / .)	1 2 3 4 5
SOIL (PCI/KG(DRY))	GAMMA	I-131	7	1.95E+02	< LLD (0 / 7)	(. . - . / .)	1 2 3 4 5
SOIL (PCI/KG(DRY))	GAMMA	RU-106	7	1.50E+02	< LLD (0 / 7)	(. . - . / .)	1 2 3 4 5
SOIL (PCI/KG(DRY))	GAMMA	CS-137	7	6.06E+01	1.05E+03 (7 / 7) (4.80E+01 - 2.30E+03)	(. . - . / .)	1 2 3 4 5
PASTURE (PCI/KG(WET))	GROSS BETA		3	1.13E+02	5.50E+03 (3 / 3) (4.70E+03 - 6.40E+03)	(. . - . / .)	28 29 30
PASTURE (MG/GM(WET))	CALCIUM BY AA		3	2.02E-01	3.82E+00 (3 / 3) (1.85E+00 - 5.44E+00)	(. . - . / .)	28 29 30
PASTURE (PCI/KG(WET))	GAMMA	CE-144	4	6.05E+02	< LLD (0 / 4)	(. . - . / .)	28 29 30

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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))	GAMMA	CS-134	4	9.10E+01	< LLD (0 /4)	(. . - . / .)	28 29 30
PASTURE (PCI/KG(WET))	GAMMA	CO-58	4	9.10E+01	< LLD (0 /4)	(. . - . / .)	28 29 30
PASTURE (PCI/KG(WET))	GAMMA	MN-54	4	8.17E+01	< LLD (0 /4)	(. . - . / .)	28 29 30
PASTURE (PCI/KG(WET))	GAMMA	FE-59	4	2.10E+02	< LLD (0 /4)	(. . - . / .)	28 29 30
PASTURE (PCI/KG(WET))	GAMMA	ZN-65	4	1.71E+02	< LLD (0 /4)	(. . - . / .)	28 29 30
PASTURE (PCI/KG(WET))	GAMMA	CO-60	4	7.77E+01	< LLD (0 /4)	(. . - . / .)	28 29 30
PASTURE (PCI/KG(WET))	GAMMA	K-40	4	2.19E+03	8.85E+02 (2 /4) (5.70E+02 - 1.20E+03)	(. . - . / .)	28 29 30
PASTURE (PCI/KG(WET))	GAMMA	BE-7	4	1.94E+03	2.04E+04 (4 /4) (8.60E+03 - 2.70E+04)	(. . - . / .)	28 29 30
PASTURE (PCI/KG(WET))	GAMMA	ZR-95	4	1.92E+02	< LLD (0 /4)	(. . - . / .)	28 29 30
PASTURE (PCI/KG(WET))	GAMMA	NB-95	4	9.92E+01	< LLD (0 /4)	(. . - . / .)	28 29 30

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PASTURE (PCI/KG(WET))	GAMMA	CE-141	4	2.20E+02	< LLD (0 /4)	(. . - . / .)	28 29 30
PASTURE (PCI/KG(WET))	GAMMA	RU-103	4	1.19E+02	< LLD (0 /4)	(. . - . / .)	28 29 30
PASTURE (PCI/KG(WET))	GAMMA	BA-140	4	7.32E+02	< LLD (0 /4)	(. . - . / .)	28 29 30
PASTURE (PCI/KG(WET))	GAMMA	LA-140	4	2.94E+02	< LLD (0 /4)	(. . - . / .)	28 29 30
PASTURE (PCI/KG(WET))	GAMMA	RA-226	4	1.81E+03	< LLD (0 /4)	(. . - . / .)	28 29 30
PASTURE (PCI/KG(WET))	GAMMA	TH-228	4	1.60E+02	< LLD (0 /4)	(. . - . / .)	28 29 30
PASTURE (PCI/KG(WET))	GAMMA	I-131	4	6.75E+02	< LLD (0 /4)	(. . - . / .)	28 29 30
PASTURE (PCI/KG(WET))	GAMMA	RU-106	4	7.55E+02	< LLD (0 /4)	(. . - . / .)	28 29 30
PASTURE (PCI/KG(WET))	GAMMA	CS-137	4	1.02E+02	2.33E+02 (3 /4) (1.50E+02 - 3.10E+02)	(. . - . / .)	28 29 30
PASTURE (PCI/KG(WET))	STRONTIUM-89		3	1.93E+01	< LLD (0 /3)	(. . - . / .)	28 29 30

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PASTURE (PCI/KG(WET))	STRONTIUM-90		3	3.62E+00	2.21E+02 (3 /3) (2.30E+01 - 3.30E+02)	(. / .) (. - .)	28 29 30
SEDIMENT (PCI/KG(DRY))	GROSS ALPHA		11	4.04E+03	5.14E+03 (2 /10) (4.58E+03 - 5.70E+03)	4.10E+03(1 /1) (4.10E+03 - 4.10E+03)	23 24 25 26 27 32 33
SEDIMENT (PCI/KG(DRY))	GROSS BETA		11	2.21E+03	1.45E+04 (9 /10) (3.50E+03 - 2.50E+04)	1.60E+04(1 /1) (1.60E+04 - 1.60E+04)	23 24 25 26 27 32 33
SEDIMENT (PCI/KG(DRY))	GAMMA	CE-144	22	1.54E+02	< LLD (0 /20)	< LLD (0 /2)	23 24 25 26 27 32 33
SEDIMENT (PCI/KG(DRY))	GAMMA	CS-134	22	2.72E+01	< LLD (0 /20)	< LLD (0 /2)	23 24 25 26 27 32 33
SEDIMENT (PCI/KG(DRY))	GAMMA	CO-58	22	2.95E+01	< LLD (0 /20)	< LLD (0 /2)	23 24 25 26 27 32 33
SEDIMENT (PCI/KG(DRY))	GAMMA	MN-54	22	2.51E+01	3.60E+01 (1 /20) (3.60E+01 - 3.60E+01)	< LLD (0 /2)	23 24 25 26 27 32 33
SEDIMENT (PCI/KG(DRY))	GAMMA	FE-59	22	7.99E+01	< LLD (0 /20)	< LLD (0 /2)	23 24 25 26 27 32 33
SEDIMENT (PCI/KG(DRY))	GAMMA	ZN-65	22	5.54E+01	< LLD (0 /20)	< LLD (0 /2)	23 24 25 26 27 32 33
SEDIMENT (PCI/KG(DRY))	GAMMA	CO-60	22	3.84E+01	3.49E+02 (11 /20) (1.90E+01 - 8.00E+02)	< LLD (0 /2)	23 24 25 26 27 32 33

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SEDIMENT (PCI/KG(DRY))	GAMMA	K-40	22	8.40E+02	7.74E+03 (20 /20) (4.70E+02 - 1.50E+04)	1.35E+04(2 /2) (1.20E+04 - 1.50E+04)	23 32	24 33	25	26	27
SEDIMENT (PCI/KG(DRY))	GAMMA	BE-7	22	3.02E+02	6.00E+02 (4 /20) (1.70E+02 - 1.50E+03)	< LLD (0 /2)	23 32	24 33	25	26	27
SEDIMENT (PCI/KG(DRY))	GAMMA	ZR-95	22	6.81E+01	< LLD (0 /20)	< LLD (0 /2)	23 32	24 33	25	26	27
SEDIMENT (PCI/KG(DRY))	GAMMA	NB-95	22	3.48E+01	< LLD (0 /20)	< LLD (0 /2)	23 32	24 33	25	26	27
SEDIMENT (PCI/KG(DRY))	GAMMA	CE-141	22	8.47E+01	< LLD (0 /20)	< LLD (0 /2)	23 32	24 33	25	26	27
SEDIMENT (PCI/KG(DRY))	GAMMA	RU-103	22	4.00E+01	< LLD (0 /20)	< LLD (0 /2)	23 32	24 33	25	26	27
SEDIMENT (PCI/KG(DRY))	GAMMA	BA-140	22	3.40E+03	< LLD (0 /20)	< LLD (0 /2)	23 32	24 33	25	26	27
SEDIMENT (PCI/KG(DRY))	GAMMA	LA-140	22	1.32E+03	< LLD (0 /20)	< LLD (0 /2)	23 32	24 33	25	26	27
SEDIMENT (PCI/KG(DRY))	GAMMA	RA-226	22	4.77E+02	1.03E+03 (17 /20) (3.40E+02 - 1.90E+03)	1.00E+03(1 /2) (1.00E+03 - 1.00E+03)	23 32	24 33	25	26	27
SEDIMENT (PCI/KG(DRY))	GAMMA	TH-228	22	6.16E+01	5.31E+02 (20 /20) (9.50E+01 - 9.40E+02)	6.60E+02(2 /2) (5.30E+02 - 7.90E+02)	23 32	24 33	25	26	27

TABLE 15
RADIOLOGICAL ENVIRONMENTAL MONITORING PROGRAM SUMMARY
OYSTER CREEK NUCLEAR GENERATING STATION
DECEMBER, 1983 THROUGH FEBRUARY, 1984
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))	GAMMA	I-131	22	8.21E+04	< LLD (0 /20)	< LLD (0 /2)	23 24 25 26 27 32 33
SEDIMENT (PCI/KG(DRY))	GAMMA	RU-106	22	2.01E+02	< LLD (0 /20)	< LLD (0 /2)	23 24 25 26 27 32 33
SEDIMENT (PCI/KG(DRY))	GAMMA	CS-137	22	3.60E+01	2.03E+02 (14 /20) (2.90E+01 - 3.50E+02)	3.21E+02(2 /2) (8.30E+01 - 5.60E+02)	23 24 25 26 27 32 33
SEDIMENT (PCI/KG(DRY))	STRONTIUM-89		11	8.99E+01	< LLD (0 /10)	< LLD (0 /1)	23 24 25 26 27 32 33
SEDIMENT (PCI/KG(DRY))	STRONTIUM-90		11	4.59E+01	1.35E+02 (2 /10) (1.00E+02 - 1.70E+02)	< LLD (0 /1)	23 24 25 26 27 32 33

TABLE 16
RADIOLOGICAL ENVIRONMENTAL MONITORING PROGRAM SUMMARY
OYSTER CREEK NUCLEAR GENERATING STATION
MARCH, 1983 THROUGH MAY, 1984
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		19	4.25E+01	6.18(193/19) (3.15E+03 - 9.82E+03)	(. / .) (-)	1	2	3	4	5
AIR PARTICULATE (PCI/M3)	GROSS ALPHA		52	9.77E-04	1.36(263/34) (6.78E-04 - 3.20E-03)	1.62E-03(14 /18) (9.65E-04 - 3.29E-03)	1	2	3	4	5
AIR PARTICULATE (PCI/M3)	GROSS BETA		52	2.56E-03	1.08(342/34) (3.85E-03 - 2.09E-02)	1.64E-02(18 /18) (6.09E-03 - 9.84E-02)	1	2	3	4	5
AIR PARTICULATE (PCI/M3)	GAMMA	CE-144	58	2.64E-02	< LL(0 /38)	< LLD (0 /20)	1	2	3	4	5
AIR PARTICULATE (PCI/M3)	GAMMA	CS-134	58	5.45E-03	< LL(0 /38)	< LLD (0 /20)	1	2	3	4	5
AIR PARTICULATE (PCI/M3)	GAMMA	CO-58	58	5.52E-03	< LL(0 /38)	< LLD (0 /20)	1	2	3	4	5
AIR PARTICULATE (PCI/M3)	GAMMA	MN-54	58	5.14E-03	< LL(0 /38)	< LLD (0 /20)	1	2	3	4	5

TABLE 16
RADIOLOGICAL ENVIRONMENTAL MONITORING PROGRAM SUMMARY
OYSTER CREEK NUCLEAR GENERATING STATION
MARCH, 1983 THROUGH MAY, 1984
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)	GAMMA	FE-59	58	1.51E-02	< LL(0 /38)	< LLD (0 /20)	1	2	3	4	5
AIR PARTICULATE (PCI/M3)	GAMMA	ZN-65	58	1.20E-02	< LL(0 /38)	< LLD (0 /20)	1	2	3	4	5
AIR PARTICULATE (PCI/M3)	GAMMA	CO-60	58	6.11E-03	< LL(0 /38)	< LLD (0 /20)	1	2	3	4	5
AIR PARTICULATE (PCI/M3)	GAMMA	K-40	58	1.24E-01	1.45(20/38) (1.40E-01 - 1.50E-01)	< LLD (0 /20)	1	2	3	4	5
AIR PARTICULATE (PCI/M3)	GAMMA	BE-7	58	5.91E-02	8.92(122/38) (4.50E-02 - 1.40E-01)	9.71E-02(8 /20) (5.40E-02 - 1.30E-01)	1	2	3	4	5
AIR PARTICULATE (PCI/M3)	GAMMA	ZR-95	58	1.17E-02	< LL(0 /38)	< LLD (0 /20)	1	2	3	4	5
AIR PARTICULATE (PCI/M3)	GAMMA	NB-95	58	5.89E-03	< LL(0 /38)	< LLD (0 /20)	1	2	3	4	5

TABLE 16
 RADIOLOGICAL ENVIRONMENTAL MONITORING PROGRAM SUMMARY
 OYSTER CREEK NUCLEAR GENERATING STATION
 MARCH, 1983 THROUGH MAY, 1984
 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)	GAMMA	CE-141	58	8.61E-03	< LL(0 /38)	< LLD (0 /20)	1	2	3	4	5
AIR PARTICULATE (PCI/M3)	GAMMA	RU-103	58	5.94E-03	< LL(0 /38)	< LLD (0 /20)	1	2	3	4	5
AIR PARTICULATE (PCI/M3)	GAMMA	BA-140	58	3.19E-02	< LL(0 /38)	< LLD (0 /20)	1	2	3	4	5
AIR PARTICULATE (PCI/M3)	GAMMA	LA-140	58	1.54E-02	< LL(0 /38)	< LLD (0 /20)	1	2	3	4	5
AIR PARTICULATE (PCI/M3)	GAMMA	RA-226	58	8.23E-02	< LL(0 /38)	< LLD (0 /20)	1	2	3	4	5
AIR PARTICULATE (PCI/M3)	GAMMA	TH-228	58	7.90E-03	< LL(0 /38)	< LLD (0 /20)	1	2	3	4	5
AIR PARTICULATE (PCI/M3)	GAMMA	I-131	58	2.58E-02	< LL(0 /38)	< LLD (0 /20)	1	2	3	4	5

TABLE 16
RADIOLOGICAL ENVIRONMENTAL MONITORING PROGRAM SUMMARY
OYSTER CREEK NUCLEAR GENERATING STATION
MARCH, 1983 THROUGH MAY, 1984
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)	GAMMA	RU-106	58	4.48E-02	< LL(0 /38)	< LLD (0 /20)	1	2	3	4	5
AIR PARTICULATE (PCI/M3)	GAMMA	CS-137	58	5.65E-03	< LL(0 /38)	< LLD (0 /20)	1	2	3	4	5
AIR PARTICULATE (PCI/M3)	STRONTIUM-89		12	6.13E-04	< LL(0 /9)	< LLD (0 /3)	1	2	3	4	5
AIR PARTICULATE (PCI/M3)	STRONTIUM-90		12	1.38E-04	< LL(0 /9)	< LLD (0 /3)	1	2	3	4	5
PRECIPITATION (PCI/L)	GROSS BETA-SS		28	6.52E-01	1.84(70/19) (6.50E-01 - 3.61E+00)	9.86E-01(5 /9) (5.33E-01 - 1.33E+00)	1	2	3	4	5
PRECIPITATION (PCI/L)	GROSS BETA-DS		28	7.62E-01	4.38(190/19) (1.37E+00 - 1.18E+01)	4.62E+00(9 /9) (1.22E+00 - 1.05E+01)	1	2	3	4	5
PRECIPITATION (PCI/L)	GAMMA	CE-144	32	3.47E+01	< LL(0 /22)	< LLD (0 /10)	1	2	3	4	5

TABLE 16
 RADIOLOGICAL ENVIRONMENTAL MONITORING PROGRAM SUMMARY
 OYSTER CREEK NUCLEAR GENERATING STATION
 MARCH, 1983 THROUGH MAY, 1984
 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)	GAMMA	CS-134	32	4.41E+00	< LL(0 /22)	< LLD (0 /10)	1	2	3	4	5
PRECIPITATION (PCI/L)	GAMMA	CO-58	32	4.12E+00	< LL(0 /22)	< LLD (0 /10)	1	2	3	4	5
PRECIPITATION (PCI/L)	GAMMA	MN-54	32	3.99E+00	< LL(0 /22)	< LLD (0 /10)	1	2	3	4	5
PRECIPITATION (PCI/L)	GAMMA	FE-59	32	8.51E+00	< LL(0 /22)	< LLD (0 /10)	1	2	3	4	5
PRECIPITATION (PCI/L)	GAMMA	ZN-65	32	8.35E+00	< LL(0 /22)	< LLD (0 /10)	1	2	3	4	5
PRECIPITATION (PCI/L)	GAMMA	CO-60	32	4.45E+00	< LL(0 /22)	< LLD (0 /10)	1	2	3	4	5
PRECIPITATION (PCI/L)	GAMMA	K-40	32	8.46E+01	< LL(0 /22)	< LLD (0 /10)	1	2	3	4	5

TABLE 16
RADIOLOGICAL ENVIRONMENTAL MONITORING PROGRAM SUMMARY
OYSTER CREEK NUCLEAR GENERATING STATION
MARCH, 1983 THROUGH MAY, 1984
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)	GAMMA	BE-7	32	4.40E+01	6.32(50/22) (5.10E+01 - 7.30E+01)	6.48E+01(5 /10) (5.90E+01 - 7.10E+01)	1 2 3 4 5
PRECIPITATION (PCI/L)	GAMMA	ZR-95	32	8.77E+00	< LL(0 /22)	< LLD (0 /10)	1 2 3 4 5
PRECIPITATION (PCI/L)	GAMMA	NB-95	32	4.38E+00	< LL(0 /22)	< LLD (0 /10)	1 2 3 4 5
PRECIPITATION (PCI/L)	GAMMA	CE-141	32	9.03E+00	< LL(0 /22)	< LLD (0 /10)	1 2 3 4 5
PRECIPITATION (PCI/L)	GAMMA	RU-103	32	4.78E+00	< LL(0 /22)	< LLD (0 /10)	1 2 3 4 5
PRECIPITATION (PCI/L)	GAMMA	BA-140	32	1.67E+01	< LL(0 /22)	< LLD (0 /10)	1 2 3 4 5
PRECIPITATION (PCI/L)	GAMMA	LA-140	32	7.33E+00	< LL(0 /22)	< LLD (0 /10)	1 2 3 4 5

TABLE 16
 RADIOLOGICAL ENVIRONMENTAL MONITORING PROGRAM SUMMARY
 OYSTER CREEK NUCLEAR GENERATING STATION
 MARCH, 1983 THROUGH MAY, 1984
 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)	GAMMA	RA-226	32	9.17E+01	< LL(0 /22)	< LLD (0 /10)	1	2	3	4	5
PRECIPITATION (PCI/L)	GAMMA	TH-228	32	8.56E+00	< LL(0 /22)	< LLD (0 /10)	1	2	3	4	5
PRECIPITATION (PCI/L)	GAMMA	I-131	32	1.01E+01	< LL(0 /22)	< LLD (0 /10)	1	2	3	4	5
PRECIPITATION (PCI/L)	GAMMA	RU-106	32	3.73E+01	< LL(0 /22)	< LLD (0 /10)	1	2	3	4	5
PRECIPITATION (PCI/L)	GAMMA	CS-137	32	4.71E+00	< LL(0 /22)	< LLD (0 /10)	1	2	3	4	5
PRECIPITATION (PCI/L)	TRITIUM		28	1.20E+02	2.95(192/19) (1.01E+02 - 8.55E+02)	2.17E+02(8 /9) (1.09E+02 - 4.51E+02)	1	2	3	4	5
PRECIPITATION (PCI/L)	STRONTIUM-89		28	2.11E+00	< LL(0 /19)	< LLD (0 /9)	1	2	3	4	5

TABLE 16
RADIOLOGICAL ENVIRONMENTAL MONITORING PROGRAM SUMMARY
OYSTER CREEK NUCLEAR GENERATING STATION
MARCH, 1983 THROUGH MAY, 1984
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-90	28	5.64E-01	< LL(0 /19)	< LLD (0 /9)	1 2 3 4 5
AIR IODINE (PCI/M3)	IODINE-131	52	2.48E-02	< LL(0 /34)	< LLD (0 /18)	1 2 3 4 5
SURFACE WATER (PCI/L)	GROSS ALPHA-SS	29	5.49E-01	< LL(0 /25)	< LLD (0 /4)	23 24 25 26 27 32 33
SURFACE WATER (PCI/L)	GROSS ALPHA-DS	29	3.14E+01	1.23(40/25) (1.34E+00 - 4.44E+01)	< LLD (0 /4)	23 24 25 26 27 32 33
SURFACE WATER (PCI/L)	GROSS BETA-SS	29	9.45E-01	1.13(20/25) (9.93E-01 - 1.26E+00)	< LLD (0 /4)	23 24 25 26 27 32 33
SURFACE WATER (PCI/L)	GROSS BETA-DS	29	1.56E+01	1.93(252/25) (1.77E+00 - 9.56E+02)	3.45E+02(4 /4) (3.35E+02 - 3.64E+02)	23 24 25 26 27 32 33
SURFACE WATER (MG/L)	CALCIUM BY AA	29	1.00E+01	3.88(192/25) (5.76E+01 - 1.08E+03)	1.27E+03(4 /4) (4.02E+02 - 2.08E+03)	23 24 25 26 27 32 33

TABLE 16
 RADIOLOGICAL ENVIRONMENTAL MONITORING PROGRAM SUMMARY
 OYSTER CREEK NUCLEAR GENERATING STATION
 MARCH, 1983 THROUGH MAY, 1984
 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)	GAMMA	CE-144	34	3.39E+01	< LL(0 /29)	< LLD (0 /5)	23 32	24 33	25	26	27
SURFACE WATER (PCI/L)	GAMMA	CS-134	34	4.40E+00	< LL(0 /29)	< LLD (0 /5)	23 32	24 33	25	26	27
SURFACE WATER (PCI/L)	GAMMA	CO-58	34	4.18E+00	< LL(0 /29)	< LLD (0 /5)	23 32	24 33	25	26	27
SURFACE WATER (PCI/L)	GAMMA	MN-54	34	3.92E+00	< LL(0 /29)	< LLD (0 /5)	23 32	24 33	25	26	27
SURFACE WATER (PCI/L)	GAMMA	FE-59	34	8.82E+00	< LL(0 /29)	< LLD (0 /5)	23 32	24 33	25	26	27
SURFACE WATER (PCI/L)	GAMMA	ZN-65	33	8.32E+00	< LL(0 /28)	< LLD (0 /5)	23 32	24 33	25	26	27
SURFACE WATER (PCI/L)	GAMMA	CO-60	34	4.32E+00	< LL(0 /29)	< LLD (0 /5)	23 32	24 33	25	26	27

TABLE 16
RADIOLOGICAL ENVIRONMENTAL MONITORING PROGRAM SUMMARY
OYSTER CREEK NUCLEAR GENERATING STATION
MARCH, 1983 THROUGH MAY, 1984
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)	GAMMA	K-40	34	9.09E+01	1.55(122/29) (9.40E+01 - 2.20E+02)	1.70E+02(3 /5) (1.40E+02 - 2.00E+02)	23 32	24 33	25	26	27
SURFACE WATER (PCI/L)	GAMMA	BE-7	34	4.07E+01	< LL(0 /29)	< LLD (0 /5)	23 32	24 33	25	26	27
SURFACE WATER (PCI/L)	GAMMA	ZR-95	34	8.85E+00	< LL(0 /29)	< LLD (0 /5)	23 32	24 33	25	26	27
SURFACE WATER (PCI/L)	GAMMA	NB-95	34	4.44E+00	< LL(0 /29)	< LLD (0 /5)	23 32	24 33	25	26	27
SURFACE WATER (PCI/L)	GAMMA	CE-141	34	9.60E+00	< LL(0 /29)	< LLD (0 /5)	23 32	24 33	25	26	27
SURFACE WATER (PCI/L)	GAMMA	RU-103	34	5.04E+00	< LL(0 /29)	< LLD (0 /5)	23 32	24 33	25	26	27
SURFACE WATER (PCI/L)	GAMMA	BA-140	34	2.10E+01	< LL(0 /29)	< LLD (0 /5)	23 32	24 33	25	26	27

TABLE 16
 RADIOLOGICAL ENVIRONMENTAL MONITORING PROGRAM SUMMARY
 OYSTER CREEK NUCLEAR GENERATING STATION
 MARCH, 1983 THROUGH MAY, 1984
 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)	GAMMA	LA-140	34	8.85E+00	< LL(0 /29)	< LLD (0 /5)	23 32	24 33	25	26	27
SURFACE WATER (PCI/L)	GAMMA	RA-226	34	9.04E+01	< LL(0 /29)	< LLD (0 /5)	23 32	24 33	25	26	27
SURFACE WATER (PCI/L)	GAMMA	TH-228	34	8.49E+00	< LL(0 /29)	< LLD (0 /5)	23 32	24 33	25	26	27
SURFACE WATER (PCI/L)	GAMMA	I-131	34	1.49E+01	< LL(0 /29)	< LLD (0 /5)	23 32	24 33	25	26	27
SURFACE WATER (PCI/L)	GAMMA	RU-106	34	3.66E+01	< LL(0 /29)	< LLD (0 /5)	23 32	24 33	25	26	27
SURFACE WATER (PCI/L)	GAMMA	CS-137	34	4.54E+00	< LL(0 /29)	< LLD (0 /5)	23 32	24 33	25	26	27
SURFACE WATER (PCI/L)	TRITIUM		29	1.25E+02	2.21(202/25) (6.80E+01 - 5.43E+02)	2.43E+02(4 /4) (1.55E+02 - 4.11E+02)	23 32	24 33	25	26	27

TABLE 16
RADIOLOGICAL ENVIRONMENTAL MONITORING PROGRAM SUMMARY
OYSTER CREEK NUCLEAR GENERATING STATION
MARCH, 1983 THROUGH MAY, 1984
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)	RADIUM-226	29	1.41E-01	5.98(40/25) (3.03E-01 - 1.15E+00)	3.12E-01(1 /4) (3.12E-01 - 3.12E-01)	23 24 25 26 27 32 33
SURFACE WATER (PCI/L)	RADIUM-228	29	1.88E-01	3.54(141/25) (1.67E-01 - 9.59E-01)	< LLD (0 /4)	23 24 25 26 27 32 33
SURFACE WATER (PCI/L)	STRONTIUM-89	29	1.29E+00	< LL(0 /25)	< LLD (0 /4)	23 24 25 26 27 32 33
SURFACE WATER (PCI/L)	STRONTIUM-90	29	5.97E-01	4.30(10/25) (4.30E-01 - 4.30E-01)	< LLD (0 /4)	23 24 25 26 27 32 33
SURFACE WATER (PCI/L)	TOTAL URANIUM	29	3.40E-02	5.60(251/25) (3.90E-02 - 1.54E+00)	1.07E+00(4 /4) (7.69E-01 - 1.54E+00)	23 24 25 26 27 32 33
WELL WATER (PCI/L)	GROSS ALPHA-SS	24	3.62E-01	< LL(0 /20)	< LLD (0 /4)	1 19 20 21 22
WELL WATER (PCI/L)	GROSS ALPHA-DS	24	6.94E-01	2.41(120/20) (7.62E-01 - 6.18E+00)	2.30E+00(4 /4) (1.79E+00 - 2.54E+00)	1 19 20 21 22

TABLE 16
RADIOLOGICAL ENVIRONMENTAL MONITORING PROGRAM SUMMARY
OYSTER CREEK NUCLEAR GENERATING STATION
MARCH, 1983 THROUGH MAY, 1984
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 BETA-SS		24	6.87E-01	< LL(0 /20)	< LLD (0 /4)	1 19 20 21 22
WELL WATER (PCI/L)	GROSS BETA-DS		24	9.08E-01	3.42(200/20) (2.00E+00 - 5.80E+00)	2.97E+00(4 /4) (2.20E+00 - 3.68E+00)	1 19 20 21 22
WELL WATER (PCI/L)	POTASSIUM-40		12	2.00E-01	1.97(100/10) (1.60E+00 - 2.30E+00)	1.41E+00(2 /2) (7.89E-01 - 2.03E+00)	1 19 20 21 22
WELL WATER (PCI/L)	GAMMA	CE-144	16	3.57E+01	< LL(0 /13)	< LLD (0 /3)	1 19 20 21 22
WELL WATER (PCI/L)	GAMMA	CS-134	16	4.58E+00	< LL(0 /13)	< LLD (0 /3)	1 19 20 21 22
WELL WATER (PCI/L)	GAMMA	CO-58	16	4.51E+00	< LL(0 /13)	< LLD (0 /3)	1 19 20 21 22
WELL WATER (PCI/L)	GAMMA	MN-54	16	4.19E+00	< LL(0 /13)	< LLD (0 /3)	1 19 20 21 22

TABLE 16
 RADIOLOGICAL ENVIRONMENTAL MONITORING PROGRAM SUMMARY
 OYSTER CREEK NUCLEAR GENERATING STATION
 MARCH, 1983 THROUGH MAY, 1984
 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)	GAMMA	FE-59	16	9.67E+00	< LL(0 /13)	< LLD (0 /3)	1 19 20 21 22
WELL WATER (PCI/L)	GAMMA	ZN-65	16	8.82E+00	< LL(0 /13)	< LLD (0 /3)	1 19 20 21 22
WELL WATER (PCI/L)	GAMMA	CO-60	16	4.46E+00	< LL(0 /13)	< LLD (0 /3)	1 19 20 21 22
WELL WATER (PCI/L)	GAMMA	K-40	16	9.28E+01	< LL(0 /13)	< LLD (0 /3)	1 19 20 21 22
WELL WATER (PCI/L)	GAMMA	BE-7	16	4.41E+01	< LL(0 /13)	< LLD (0 /3)	1 19 20 21 22
WELL WATER (PCI/L)	GAMMA	ZR-95	16	9.44E+00	< LL(0 /13)	< LLD (0 /3)	1 19 20 21 22
WELL WATER (PCI/L)	GAMMA	NB-95	16	4.97E+00	< LL(0 /13)	< LLD (0 /3)	1 19 20 21 22

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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)	GAMMA	CE-141	16	1.05E+01	< LL(0 /13)	< LLD (0 /3)	1 19 20 21 22
WELL WATER (PCI/L)	GAMMA	RU-103	16	5.64E+00	< LL(0 /13)	< LLD (0 /3)	1 19 20 21 22
WELL WATER (PCI/L)	GAMMA	BA-140	16	2.43E+01	< LL(0 /13)	< LLD (0 /3)	1 19 20 21 22
WELL WATER (PCI/L)	GAMMA	LA-140	16	9.94E+00	< LL(0 /13)	< LLD (0 /3)	1 19 20 21 22
WELL WATER (PCI/L)	GAMMA	RA-226	16	9.65E+01	< LL(0 /13)	< LLD (0 /3)	1 19 20 21 22
WELL WATER (PCI/L)	GAMMA	TH-228	16	8.76E+00	< LL(0 /13)	< LLD (0 /3)	1 19 20 21 22
WELL WATER (PCI/L)	GAMMA	I-131	16	1.69E+01	< LL(0 /13)	< LLD (0 /3)	1 19 20 21 22

TABLE 16
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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)	GAMMA	RU-106	16	3.93E+01	< LL(0 /13)	< LLD (0 /3)	1 19 20 21 22
WELL WATER (PCI/L)	GAMMA	CS-137	16	4.91E+00	< LL(0 /13)	< LLD (0 /3)	1 19 20 21 22
WELL WATER (PCI/L)	TRITIUM		12	1.39E+02	2.48(70/10) (1.29E+02 - 4.25E+02)	2.06E+02(2 /2) (1.28E+02 - 2.84E+02)	1 19 20 21 22
WELL WATER (PCI/L)	RADIUM-226		12	2.62E-01	8.00(40/10) (2.75E-01 - 1.35E+00)	6.97E-01(1 /2) (6.97E-01 - 6.97E-01)	1 19 20 21 22
WELL WATER (PCI/L)	RADIUM-228		12	2.94E-01	8.80(60/10) (3.84E-01 - 1.48E+00)	8.04E-01(1 /2) (8.04E-01 - 8.04E-01)	1 19 20 21 22
WELL WATER (PCI/L)	TOTAL URANIUM		12	5.95E-02	1.23(20/10) (1.20E-01 - 1.27E-01)	4.34E-01(2 /2) (5.77E-02 - 8.11E-01)	1 19 20 21 22
CLAMS (PCI/KG(WET))	GROSS ALPHA		15	5.24E+01	9.80(60/11) (4.69E+01 - 1.43E+02)	1.44E+02(1 /4) (1.44E+02 - 1.44E+02)	23 24 25

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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))	GROSS BETA		15	4.70E+01	2.27(113/11) (1.44E+03 - 4.58E+03)	2.47E+03(3 /4) (1.21E+03 - 4.60E+03)	23 24 25
CLAMS (MG/GM(WET))	CALCIUM BY AA		7	6.78E-02	2.16(50/5) (4.52E-02 - 4.69E-01)	2.13E-01(1 /2) (2.13E-01 - 2.13E-01)	23 24 25
CLAMS (PCI/KG(WET))	GAMMA	CE-144	8	6.75E+01	< LL(0 /5)	< LLD (0 /3)	23 24 25
CLAMS (PCI/KG(WET))	GAMMA	CS-134	8	9.49E+00	< LL(0 /5)	< LLD (0 /3)	23 24 25
CLAMS (PCI/KG(WET))	GAMMA	CO-58	8	9.14E+00	< LL(0 /5)	< LLD (0 /3)	23 24 25
CLAMS (PCI/KG(WET))	GAMMA	MN-54	8	8.17E+00	< LL(0 /5)	< LLD (0 /3)	23 24 25
CLAMS (PCI/KG(WET))	GAMMA	FE-59	8	2.19E+01	< LL(0 /5)	< LLD (0 /3)	23 24 25

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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))	GAMMA	ZN-65	8	1.90E+01	< LL(0 /5)	< LLD (0 /3)	23 24 25
CLAMS (PCI/KG(WET))	GAMMA	CO-60	8	1.07E+01	9.90(10/5) (9.90E+00 - 9.90E+00)	< LLD (0 /3)	23 24 25
CLAMS (PCI/KG(WET))	GAMMA	K-40	8	3.26E+02	1.62(50/5) (1.30E+03 - 1.80E+03)	1.90E+03(3 /3) (1.80E+03 - 2.00E+03)	23 24 25
CLAMS (PCI/KG(WET))	GAMMA	BE-7	8	8.80E+01	< LL(0 /5)	< LLD (0 /3)	23 24 25
CLAMS (PCI/KG(WET))	GAMMA	ZR-95	8	1.90E+01	< LL(0 /5)	< LLD (0 /3)	23 24 25
CLAMS (PCI/KG(WET))	GAMMA	NB-95	8	1.01E+01	< LL(0 /5)	< LLD (0 /3)	23 24 25
CLAMS (PCI/KG(WET))	GAMMA	CE-141	8	1.99E+01	< LL(0 /5)	< LLD (0 /3)	23 24 25

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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))	GAMMA	RU-103	8	1.06E+01	< LL(0 /5)	< LLD (0 /3)	23 24 25
CLAMS (PCI/KG(WET))	GAMMA	BA-140	8	5.04E+01	< LL(0 /5)	< LLD (0 /3)	23 24 25
CLAMS (PCI/KG(WET))	GAMMA	LA-140	8	2.09E+01	< LL(0 /5)	< LLD (0 /3)	23 24 25
CLAMS (PCI/KG(WET))	GAMMA	RA-226	8	1.80E+02	< LL(0 /5)	4.70E+02(1 /3) (4.70E+02 - 4.70E+02)	23 24 25
CLAMS (PCI/KG(WET))	GAMMA	TH-228	8	1.63E+01	< LL(0 /5)	< LLD (0 /3)	23 24 25
CLAMS (PCI/KG(WET))	GAMMA	I-131	8	3.95E+01	< LL(0 /5)	< LLD (0 /3)	23 24 25
CLAMS (PCI/KG(WET))	GAMMA	RU-106	8	7.46E+01	< LL(0 /5)	< LLD (0 /3)	23 24 25

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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))	GAMMA	CS-137	8	9.71E+00	< LL(0 /5)	< LLD (0 /3)	23 24 25
CLAMS (PCI/KG(WET))	STRONTIUM-89		7	3.51E+00	< LL(0 /5)	< LLD (0 /2)	23 24 25
CLAMS (PCI/KG(WET))	STRONTIUM-90		7	2.04E+00	< LL(0 /5)	< LLD (0 /2)	23 24 25
SOIL (PCI/KG(DRY))	GROSS BETA		19	2.15E+03	6.94(193/19) (2.76E+03 - 1.92E+04)	(. / .) (. - .)	1 2 3 4 5
SOIL (PCI/KG(DRY))	GAMMA	CE-144	10	1.58E+02	< LL(0 /10)	(. / .) (. - .)	1 2 3 4 5
SOIL (PCI/KG(DRY))	GAMMA	CS-134	10	2.19E+01	< LL(0 /10)	(. / .) (. - .)	1 2 3 4 5
SOIL (PCI/KG(DRY))	GAMMA	CO-58	10	2.23E+01	< LL(0 /10)	(. / .) (. - .)	1 2 3 4 5

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SOIL (PCI/KG(DRY))	GAMMA	MN-54	10	1.99E+01	< LL(0 /10)	(. / .) - .)	1 2 3 4 5
SOIL (PCI/KG(DRY))	GAMMA	FE-59	10	4.92E+01	< LL(0 /10)	(. / .) - .)	1 2 3 4 5
SOIL (PCI/KG(DRY))	GAMMA	ZN-65	10	4.41E+01	< LL(0 /10)	(. / .) - .)	1 2 3 4 5
SOIL (PCI/KG(DRY))	GAMMA	CO-60	10	2.00E+01	< LL(0 /10)	(. / .) - .)	1 2 3 4 5
SOIL (PCI/KG(DRY))	GAMMA	K-40	10	4.50E+02	1.02(103/10) (3.20E+02 - 2.10E+03)	(. / .) - .)	1 2 3 4 5
SOIL (PCI/KG(DRY))	GAMMA	BE-7	10	2.43E+02	4.50(20/10) (1.80E+02 - 7.20E+02)	(. / .) - .)	1 2 3 4 5
SOIL (PCI/KG(DRY))	GAMMA	ZR-95	10	5.03E+01	< LL(0 /10)	(. / .) - .)	1 2 3 4 5

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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				
SOIL (PCI/KG(DRY))	GAMMA	NB-95	10	2.67E+01	< LL(0 /10)	(. . / . .)	1	2	3	4	5
SOIL (PCI/KG(DRY))	GAMMA	CE-141	10	5.94E+01	< LL(0 /10)	(. . / . .)	1	2	3	4	5
SOIL (PCI/KG(DRY))	GAMMA	RU-103	10	2.91E+01	< LL(0 /10)	(. . / . .)	1	2	3	4	5
SOIL (PCI/KG(DRY))	GAMMA	BA-140	10	1.83E+02	< LL(0 /10)	(. . / . .)	1	2	3	4	5
SOIL (PCI/KG(DRY))	GAMMA	LA-140	10	7.74E+01	< LL(0 /10)	(. . / . .)	1	2	3	4	5
SOIL (PCI/KG(DRY))	GAMMA	RA-226	10	3.72E+02	1.00(40/10) (5.50E+02 - 1.50E+03)	(. . / . .)	1	2	3	4	5
SOIL (PCI/KG(DRY))	GAMMA	TH-228	10	4.68E+01	2.87(102/10) (1.20E+02 - 4.30E+02)	(. . / . .)	1	2	3	4	5

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SOIL (PCI/KG(DRY))	GAMMA	I-131	10	2.05E+02	< LL(0 /10)	(. / .) (. - .)	1	2	3	4	5
SOIL (PCI/KG(DRY))	GAMMA	RU-106	10	1.80E+02	< LL(0 /10)	(. / .) (. - .)	1	2	3	4	5
SOIL (PCI/KG(DRY))	GAMMA	CS-137	10	6.07E+01	7.89(90/10) (9.40E+01 - 1.60E+03)	(. / .) (. - .)	1	2	3	4	5
PASTURE (PCI/KG(WET))	GROSS BETA		6	6.03E+01	8.60(60/6) (5.83E+03 - 1.22E+04)	(. / .) (. - .)	28	29	30		
PASTURE (MG/GM(WET))	CALCIUM BY AA		6	1.15E-01	9.30(50/6) (2.96E-01 - 1.64E+00)	(. / .) (. - .)	28	29	30		
PASTURE (PCI/KG(WET))	GAMMA	CE-144	6	2.93E+02	< LL(0 /6)	(. / .) (. - .)	28	29	30		
PASTURE (PCI/KG(WET))	GAMMA	CS-134	6	3.98E+01	< LL(0 /6)	(. / .) (. - .)	28	29	30		

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PASTURE (PCI/KG(WET))	GAMMA	CO-58	6	4.03E+01	< LL(0 /6)	(. / .) - .)	28 29 30
PASTURE (PCI/KG(WET))	GAMMA	MN-54	6	3.70E+01	< LL(0 /6)	(. / .) - .)	28 29 30
PASTURE (PCI/KG(WET))	GAMMA	FE-59	6	8.57E+01	< LL(0 /6)	(. / .) - .)	28 29 30
PASTURE (PCI/KG(WET))	GAMMA	ZN-65	6	7.57E+01	< LL(0 /6)	(. / .) - .)	28 29 30
PASTURE (PCI/KG(WET))	GAMMA	CO-60	6	3.83E+01	< LL(0 /6)	(. / .) - .)	28 29 30
PASTURE (PCI/KG(WET))	GAMMA	K-40	6	5.65E+02	6.70(10/6) (6.70E+02 - 6.70E+02)	(. / .) - .)	28 29 30
PASTURE (PCI/KG(WET))	GAMMA	BE-7	6	1.22E+03	1.25(60/6) (6.30E+03 - 2.00E+04)	(. / .) - .)	28 29 30

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PASTURE (PCI/KG(WET))	GAMMA	ZR-95	6	8.75E+01	< LL(0 /6)	(. / .) - .)	28 29 30
PASTURE (PCI/KG(WET))	GAMMA	NB-95	6	4.25E+01	< LL(0 /6)	(. / .) - .)	28 29 30
PASTURE (PCI/KG(WET))	GAMMA	CE-141	6	9.08E+01	< LL(0 /6)	(. / .) - .)	28 29 30
PASTURE (PCI/KG(WET))	GAMMA	RU-103	6	5.28E+01	< LL(0 /6)	(. / .) - .)	28 29 30
PASTURE (PCI/KG(WET))	GAMMA	BA-140	6	2.63E+02	< LL(0 /6)	(. / .) - .)	28 29 30
PASTURE (PCI/KG(WET))	GAMMA	LA-140	6	1.02E+02	< LL(0 /6)	(. / .) - .)	28 29 30
PASTURE (PCI/KG(WET))	GAMMA	RA-226	6	8.13E+02	< LL(0 /6)	(. / .) - .)	28 29 30

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PASTURE (PCI/KG(WET))	GAMMA	TH-228	6	8.27E+01	< LL(0 /6)	(. / .) (. - .)	28 29 30
PASTURE (PCI/KG(WET))	GAMMA	I-131	6	2.27E+02	< LL(0 /6)	(. / .) (. - .)	28 29 30
PASTURE (PCI/KG(WET))	GAMMA	RU-106	6	3.53E+02	< LL(0 /6)	(. / .) (. - .)	28 29 30
PASTURE (PCI/KG(WET))	GAMMA	CS-137	6	5.17E+01	8.90(40/6) (6.60E+01 - 1.30E+02)	(. / .) (. - .)	28 29 30
PASTURE (PCI/KG(WET))	STRONTIUM-89		6	3.10E+01	< LL(0 /6)	(. / .) (. - .)	28 29 30
PASTURE (PCI/KG(WET))	STRONTIUM-90		6	8.34E+00	1.32(60/6) (4.06E+01 - 3.35E+02)	(. / .) (. - .)	28 29 30
SEDIMENT (PCI/KG(DRY))	GROSS ALPHA		13	4.20E+03	4.32(20/11) (4.04E+03 - 4.61E+03)	4.04E+03(1 /2) (4.04E+03 - 4.04E+03)	23 24 25 26 27 32 33

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SEDIMENT (PCI/KG(DRY))	GROSS BETA		13	2.24E+03	1.09(114/11) (2.81E+03 - 3.05E+04)	2.73E+04(2 /2) (2.52E+04 - 2.94E+04)	23 32	24 33	25	26	27
SEDIMENT (PCI/KG(DRY))	GAMMA	CE-144	29	1.58E+02	< LL(0 /24)	< LLD (0 /5)	23 32	24 33	25	26	27
SEDIMENT (PCI/KG(DRY))	GAMMA	CS-134	29	2.85E+01	< LL(0 /24)	< LLD (0 /5)	23 32	24 33	25	26	27
SEDIMENT (PCI/KG(DRY))	GAMMA	CO-58	29	2.95E+01	< LL(0 /24)	< LLD (0 /5)	23 32	24 33	25	26	27
SEDIMENT (PCI/KG(DRY))	GAMMA	MN-54	29	2.63E+01	< LL(0 /24)	< LLD (0 /5)	23 32	24 33	25	26	27
SEDIMENT (PCI/KG(DRY))	GAMMA	FE-59	29	7.15E+01	< LL(0 /24)	< LLD (0 /5)	23 32	24 33	25	26	27
SEDIMENT (PCI/KG(DRY))	GAMMA	ZN-65	29	6.02E+01	< LL(0 /24)	< LLD (0 /5)	23 32	24 33	25	26	27

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SEDIMENT (PCI/KG(DRY))	GAMMA	CO-60	29	3.57E+01	3.66(80/24) (2.90E+01 - 7.30E+02)	< LLD (0 /5)	23 32	24 33	25	26	27
SEDIMENT (PCI/KG(DRY))	GAMMA	K-40	29	8.31E+02	5.27(243/24) (6.80E+02 - 1.70E+04)	1.07E+04(5 /5) (5.50E+03 - 1.40E+04)	23 32	24 33	25	26	27
SEDIMENT (PCI/KG(DRY))	GAMMA	BE-7	29	2.92E+02	6.02(50/24) (3.10E+02 - 1.10E+03)	< LLD (0 /5)	23 32	24 33	25	26	27
SEDIMENT (PCI/KG(DRY))	GAMMA	ZR-95	29	6.71E+01	< LL(0 /24)	< LLD (0 /5)	23 32	24 33	25	26	27
SEDIMENT (PCI/KG(DRY))	GAMMA	NB-95	29	3.42E+01	< LL(0 /24)	< LLD (0 /5)	23 32	24 33	25	26	27
SEDIMENT (PCI/KG(DRY))	GAMMA	CE-141	29	6.06E+01	< LL(0 /24)	< LLD (0 /5)	23 32	24 33	25	26	27
SEDIMENT (PCI/KG(DRY))	GAMMA	RU-103	29	3.61E+01	< LL(0 /24)	< LLD (0 /5)	23 32	24 33	25	26	27

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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				
SEDIMENT (PCI/KG(DRY))	GAMMA	BA-140	29	2.69E+02	< LL(0 /24)	< LLD (0 /5)	23 32	24 33	25	26	27
SEDIMENT (PCI/KG(DRY))	GAMMA	LA-140	29	1.15E+02	< LL(0 /24)	< LLD (0 /5)	23 32	24 33	25	26	27
SEDIMENT (PCI/KG(DRY))	GAMMA	RA-226	29	4.84E+02	1.21(203/24) (5.30E+02 - 2.70E+03)	7.54E+02(5 /5) (6.40E+02 - 1.00E+03)	23 32	24 33	25	26	27
SEDIMENT (PCI/KG(DRY))	GAMMA	TH-228	29	5.92E+01	4.67(242/24) (1.50E+02 - 9.50E+02)	4.38E+02(5 /5) (3.30E+02 - 6.00E+02)	23 32	24 33	25	26	27
SEDIMENT (PCI/KG(DRY))	GAMMA	I-131	29	2.82E+02	< LL(0 /24)	< LLD (0 /5)	23 32	24 33	25	26	27
SEDIMENT (PCI/KG(DRY))	GAMMA	RU-106	29	2.23E+02	< LL(0 /24)	< LLD (0 /5)	23 32	24 33	25	26	27
SEDIMENT (PCI/KG(DRY))	GAMMA	CS-137	29	3.64E+01	2.51(142/24) (3.00E+01 - 6.00E+02)	9.68E+01(5 /5) (3.50E+01 - 2.70E+02)	23 32	24 33	25	26	27

TABLE 16
 RADIOLOGICAL ENVIRONMENTAL MONITORING PROGRAM SUMMARY
 OYSTER CREEK NUCLEAR GENERATING STATION
 MARCH, 1983 THROUGH MAY, 1984
 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))	STRONTIUM-89	13	7.19E+01	< LL(0 /11)	< LLD (0 /2)	23 32	24 33	25	26	27
SEDIMENT (PCI/KG(DRY))	STRONTIUM-90	13	2.95E+01	< LL(0 /11)	< LLD (0 /2)	23 32	24 33	25	26	27

ANALYSIS OF DATA

Data collected as part of Oyster Creek's Radiological Environmental Monitoring Program (REMP) is analyzed upon sample analysis completion. Each analytical result is compared with historical data in order to flag those which deviate from historical trends. In some cases, i.e., analyses which are relatively new to REMP, an insufficient amount of historical data is available and therefore "outliers" cannot really be considered as such. In the majority of cases, though, analyses have a sufficient data base on which to base historical trends and a statistical comparison is done with each result on this basis. The results of these comparisons are discussed below.

Many of the activities flagged by the process described above were naturally-occurring nuclides and are therefore not considered to be due to facility operations. For example, Ra-226 and, in turn, gross alpha analysis of dissolved solids activity were found to be a bit higher than usual in surface water samples at both background and indicator stations. Similarly, gross beta activity in soil and vegetation and gross beta analysis of dissolved solids in surface water samples, as well as a larger amount of gross beta activity in clams is mostly attributed to K-40 (Figure 9). These activities are probably due to seasonal fluctuations and are not considered to be abnormal.

The effects of nuclear weapons testing, as indicated by fallout, were evident in some environmental media as well. Since tritium levels in atmospheric water have been found to be directly related to nuclear weapons testing (Ferronsky and Polyakov, 1982), large amounts of rainfall

during the spring months is a plausible explanation for elevated tritium levels at both background and indicator stations (Table 14, Figure 10). Other nuclides associated with fallout were detected (Sr-90 and Cs-137) in pasture and sediment samples (Table 14).

Well and surface water tritium values were higher than normal during the reporting period. In the case of surface water analyses, these values were detected at both background and indicator stations so are therefore not attributable to facility operations. Well water tritium concentrations were higher than usual at indicator stations but still are not attributed to facility discharges for the following reasons: first, there is no hydrologic correlation between liquid effluent releases (into salt water) and environmental wells (fresh water); second, while approximately 1 curie of tritium was released via the stack during the reporting period, it is highly unlikely that even trace amounts could be detected in area wells after dispersion through the air and dilution with precipitation. The maximum concentrations detected in a well during the reporting period was 425 pCi/l. The EPA Interim Primary Drinking Water Regulation has set a maximum level at 20,000 pCi/l (American Public Health Association, 1980) before it considers a source to be contaminated.

In conclusion, it is evident from the sampling of environmental media that no radioactivity in the environment detected during the reporting period can be attributed to facility operation. Much of the activity is due to fallout from nuclear weapons testing and most is from naturally-occurring sources. Gamma exposure in the environment was verified via thermoluminescent dosimeters (TLD's) to be similar at

background and indicator stations (Table 12, Figure 11). Be-7, a gamma-emitting nuclide of cosmic origin, showed an activity trend similar to that of TLD's (Figure 12). This nuclide, as well as an increase in other gamma-emitters in the spring months are believed to be the cause of the slight increase in exposure shown in Table 12 and Figure 11. Based on these data, facility operations do not show any impact on the environment.

FIGURE 9

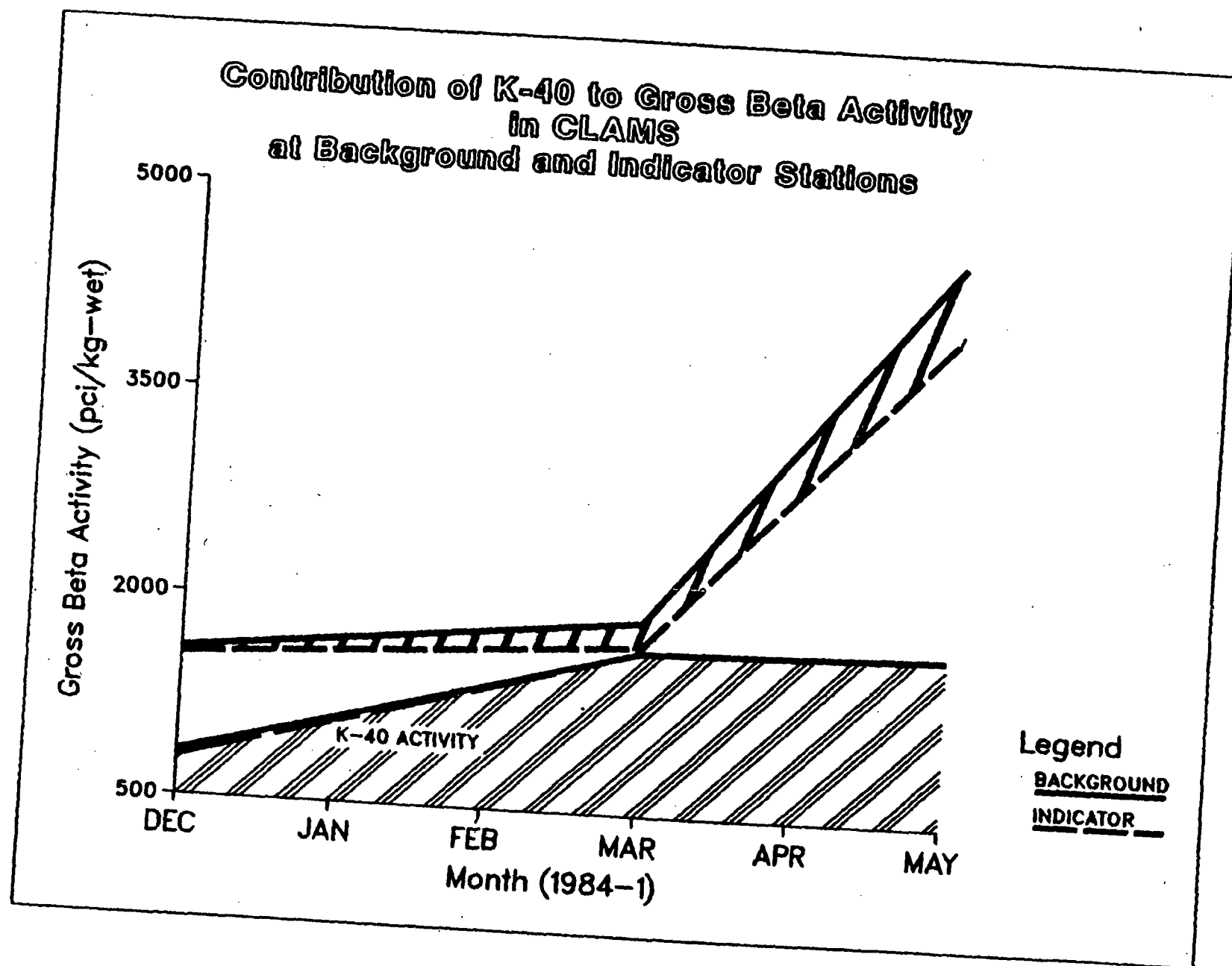


FIGURE 10

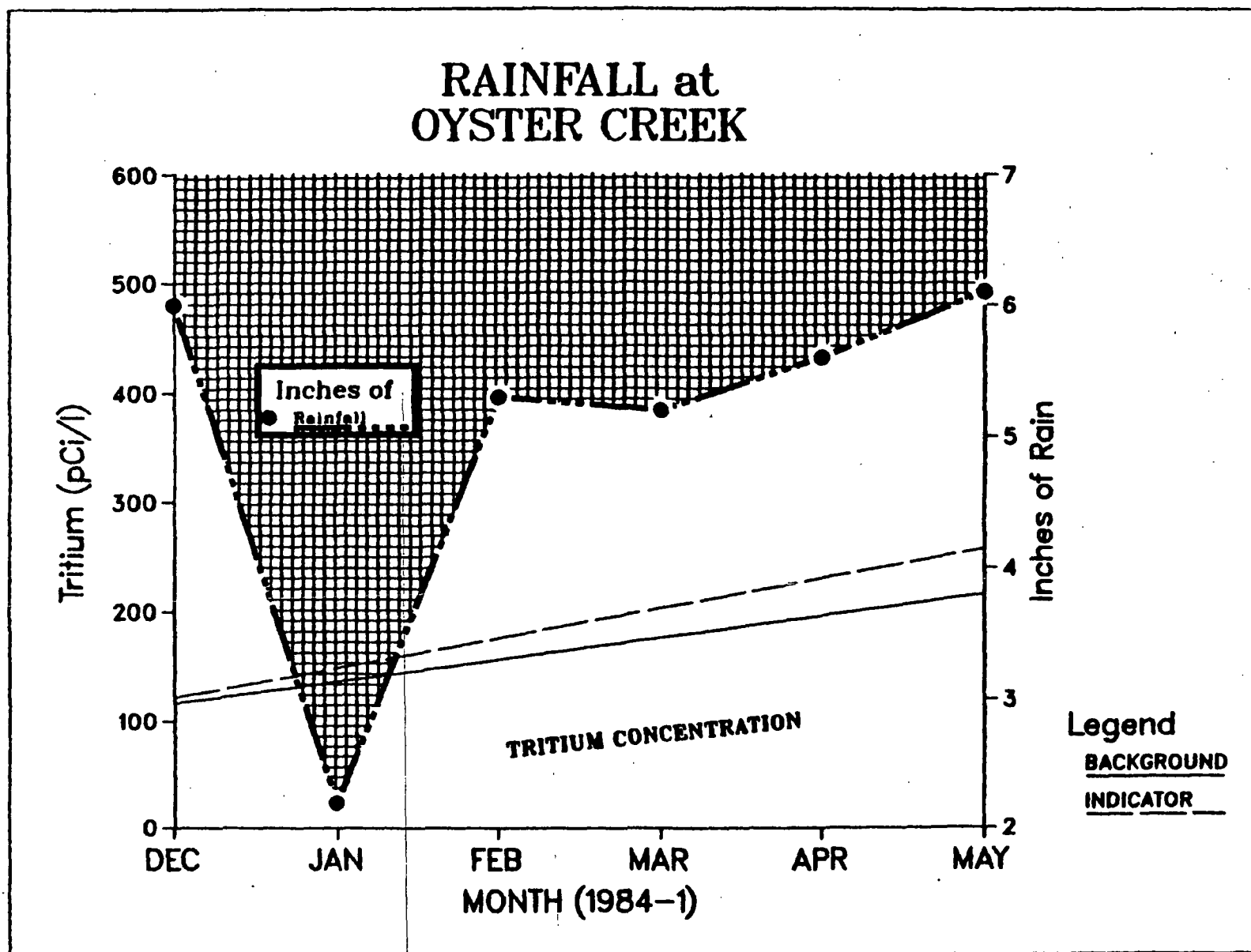


FIGURE 11

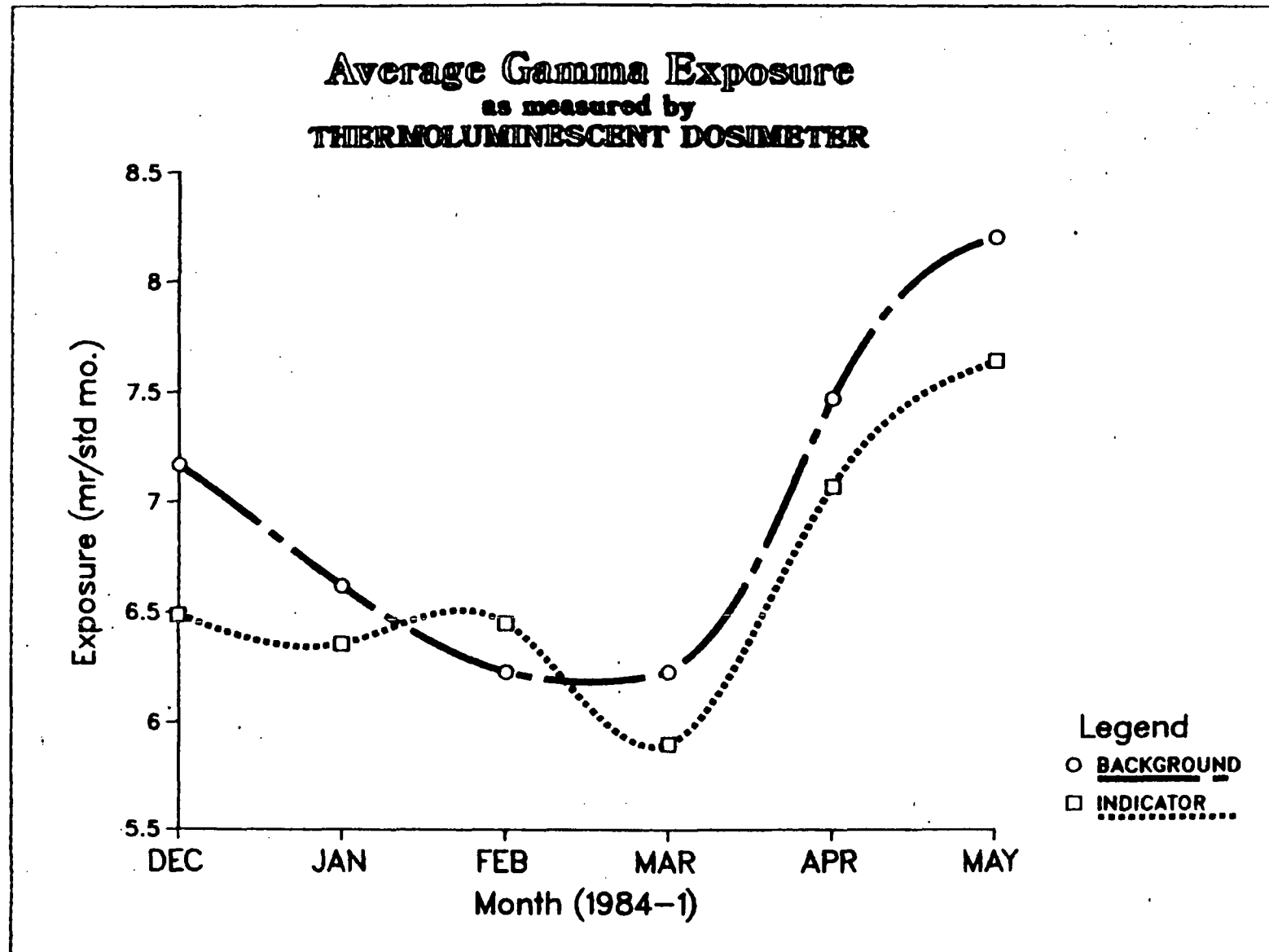
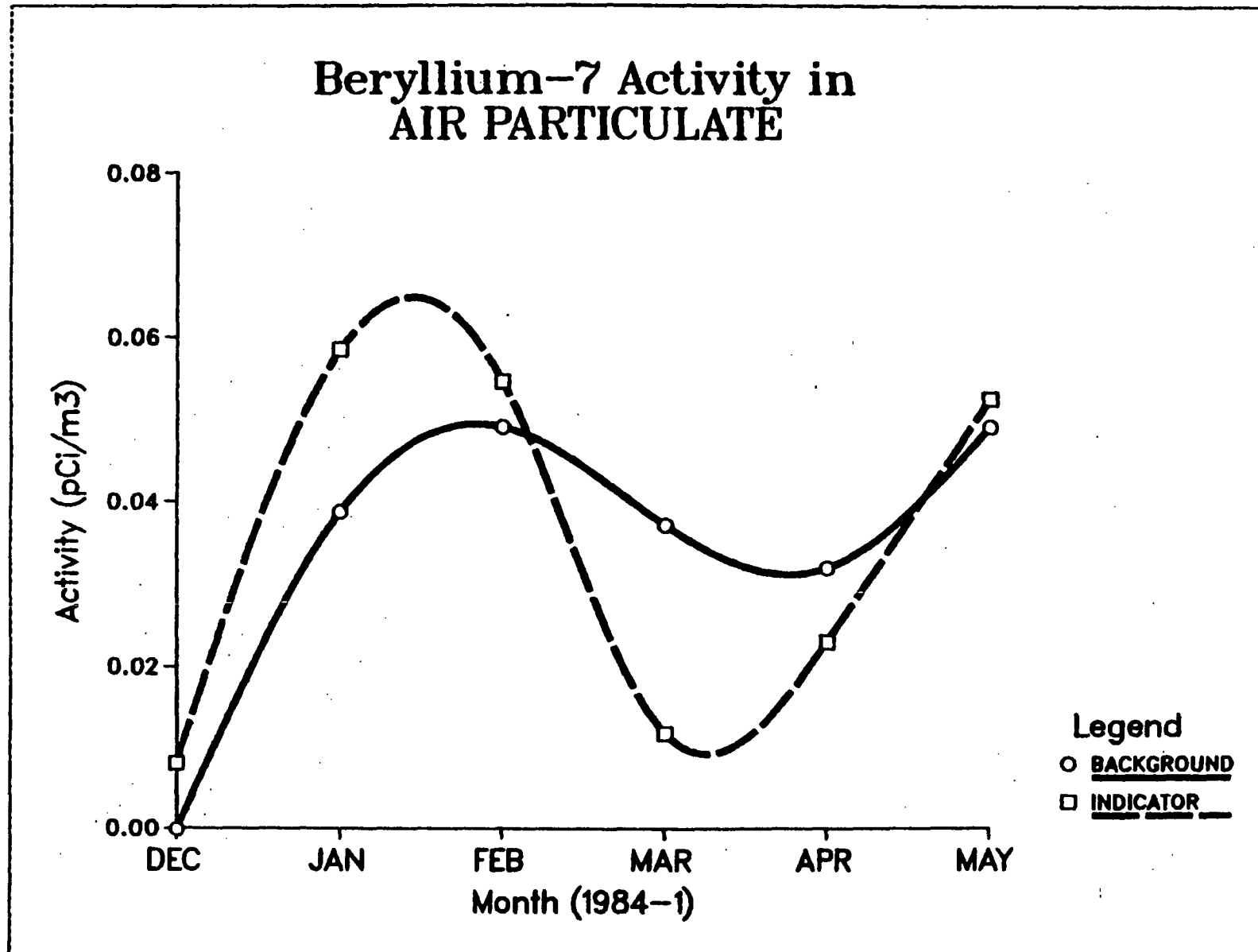


FIGURE 12



RADIOLOGICAL IMPACT ON MAN

Two principle exposure pathways, inhalation and ingestion, are available to gaseous and liquid effluent isotopes, respectively, in the vicinity of Oyster Creek. Intakes via the inhalation pathway are from gaseous effluents, while the ingestion pathway is via consumption of shellfish from Oyster Creek's discharge canal and Barnegat Bay and consumption of garden vegetables. Additionally, a third means of exposure is from direct radiation from Oyster Creek effluents. The maximum hypothetical exposure to any individual from liquid pathways would occur to someone standing at the offsite boundary on the shore of the discharge canal (direct exposure) and who consumes shellfish (ingestion). For purposes of this report this hypothetical individual is designated as Receptor #1. Maximum exposure due to gaseous pathways (inhalation, ingestion, and direct radiation) would depend on the predominant wind direction and the location of persons living in a given sector with respect to the plant. The direction and distance for this individual is given in Tables 17 and 18.

The following tables represent the offsite dose summary for the two quarters of the six-month reporting period. The information provided was calculated using the models and methodology outlined in NRC Regulatory Guide 1.109 and proposed NRC Regulatory Guide 1.111. The analysis herein represents the maximum hypothetical liquid and gaseous pathway individual doses (Tables 17, 18, and 19). Also included are the appropriate dose limits as given in 10CFR50, Appendix I, the age group, and the receptor location. The semiannual estimated dose and percent of applicable limit

complete the offsite dose assessment of maximum hypothetical doses for the semiannual period.

For both quarterly periods, the maximum individual exposures resulting from OCNCS operation from all pathways are well below the NRC limits of 10 CFR 50, Appendix I and in turn, concentrations in environmental media were well below concentrations in 10 CFR 20, Appendix B, Table II. Monthly analysis of thermoluminescent dosimeters (TLD) for gamma exposure confirm that doses at indicator stations were at or below those of background stations (Table 12).

TABLE 17

SUMMARY OF MAXIMUM INDIVIDUAL DOSES FOR THE
PERIOD FROM JANUARY 1, 1984 THROUGH MARCH 31, 1984

EFFLUENT	APPLICABLE ORGAN	ESTIMATED DOSE (MREM)	AGE GROUP	LOCATION	
				DIST (m)	DIR (TOWARD)
LIQUID	TOTAL BODY	2.59 E-4	TEEN	RECEPTOR 1	
LIQUID	GI-TRACT	1.54 E-3	ADULT	RECEPTOR 1	
NOBLE GAS*	AIR DOSE (γ -MRAD)	-		-	-
NOBLE GAS*	AIR DOSE (β -MRAD)	-		-	-
NOBLE GAS*	TOTAL BODY	-		-	-
NOBLE GAS*	SKIN	-		-	-
IODINE & PARTICULATE	THYROID	7.32 E-5	CHILD	966	SE

* Noble Gas Activity during the period was below the lower limit of detection. Therefore, dose assessment could not be performed.

TABLE 18
SUMMARY OF MAXIMUM INDIVIDUAL DOSES FOR THE
PERIOD FROM APRIL 1, 1984 THROUGH JUNE 30, 1984

EFFLUENT	APPLICABLE ORGAN	ESTIMATED DOSE (MREM)	AGE GROUP	LOCATION	
				DIST (m)	DIR (TOWARD)
LIQUID	TOTAL BODY	2.85 E-4	TEEN	RECEPTOR 1	
LIQUID	GI-TRACT	1.57 E-3	ADULT	RECEPTOR 1	
NOBLE GAS*	AIR DOSE (Y-MRAD)	-		-	-
NOBLE GAS*	AIR DOSE (B-MRAD)	-		-	-
NOBLE GAS*	TOTAL BODY	-		-	-
NOBLE GAS*	SKIN	-		-	-
IODINE & PARTICULATE	THYROID	8.11 E-4		966	SE

* Noble Gas Activity during the period was below the lower limit of detection. Therefore, dose assessment could not be performed.

TABLE 19

SUMMARY OF MAXIMUM INDIVIDUAL DOSES FOR THE
PERIOD FROM JANUARY 1, 1984 THROUGH JUNE 30, 1984

EFFLUENT	APPLICABLE ORGAN	SEMIANNUAL ESTIMATED DOSE (MREM)	ANNUAL % APPLIC. LIMIT	ANNUAL LIMIT (MR)
LIQUID	TOTAL BODY	5.44 E-4	1.8 E-2	3.0
LIQUID	GI-TRACT	3.11 E-3	3.1 E-2	10.0
NOBLE GAS*	AIR DOSE (γ -MRAD)	-	-	10.0
NOBLE GAS*	AIR DOSE (β -MRAD)	-	-	20.0
NOBLE GAS*	TOTAL BODY	-	-	5.0
NOBLE GAS*	SKIN	-	-	15.0
IODINE & PARTICULATE	THYROID	8.84 E-4	5.90 E-3	15.0

* Noble gas activity during the period was below the lower limit of detection. Therefore, dose assessment could not be performed.

IV. REFERENCES

REFERENCES

American Public Health Association. 1980, Standard Methods for the Examination of Water and Waste Water. 15th Edition, page 604.

Ferronsky, V. I. and V. A. Polyakov. 1982. Environmental Isotopes in the Hydrosphere. John Wiley and Sons, New York, p. 232.