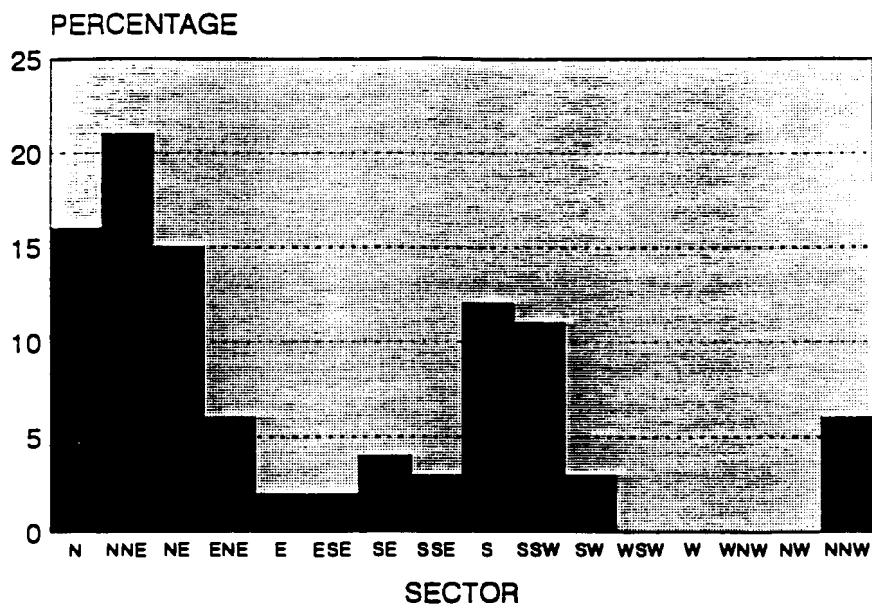
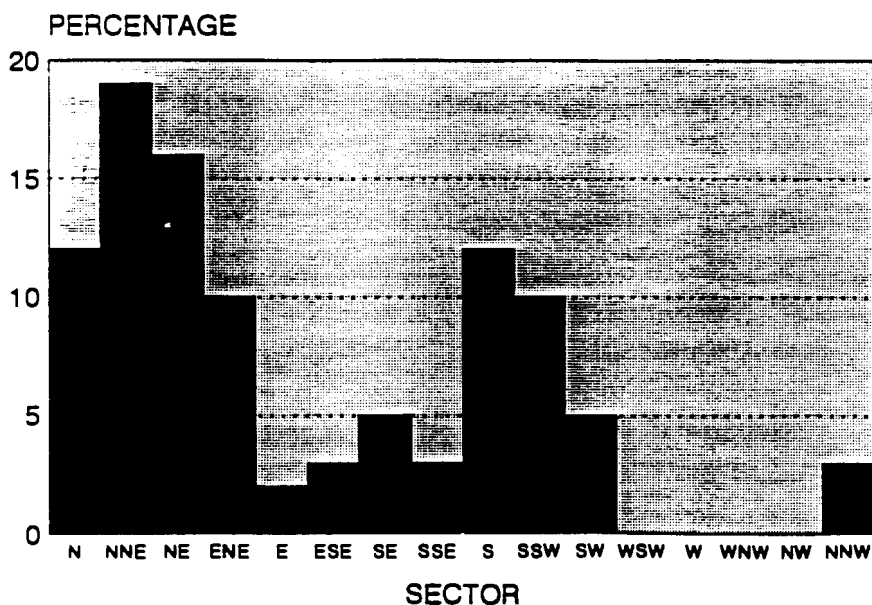


# PERMANENT POPULATION DISTRIBUTION FIVE MILE RADIUS FROM STATION



# TRANSIENT POPULATION DISTRIBUTION FIVE MILE RADIUS FROM STATION

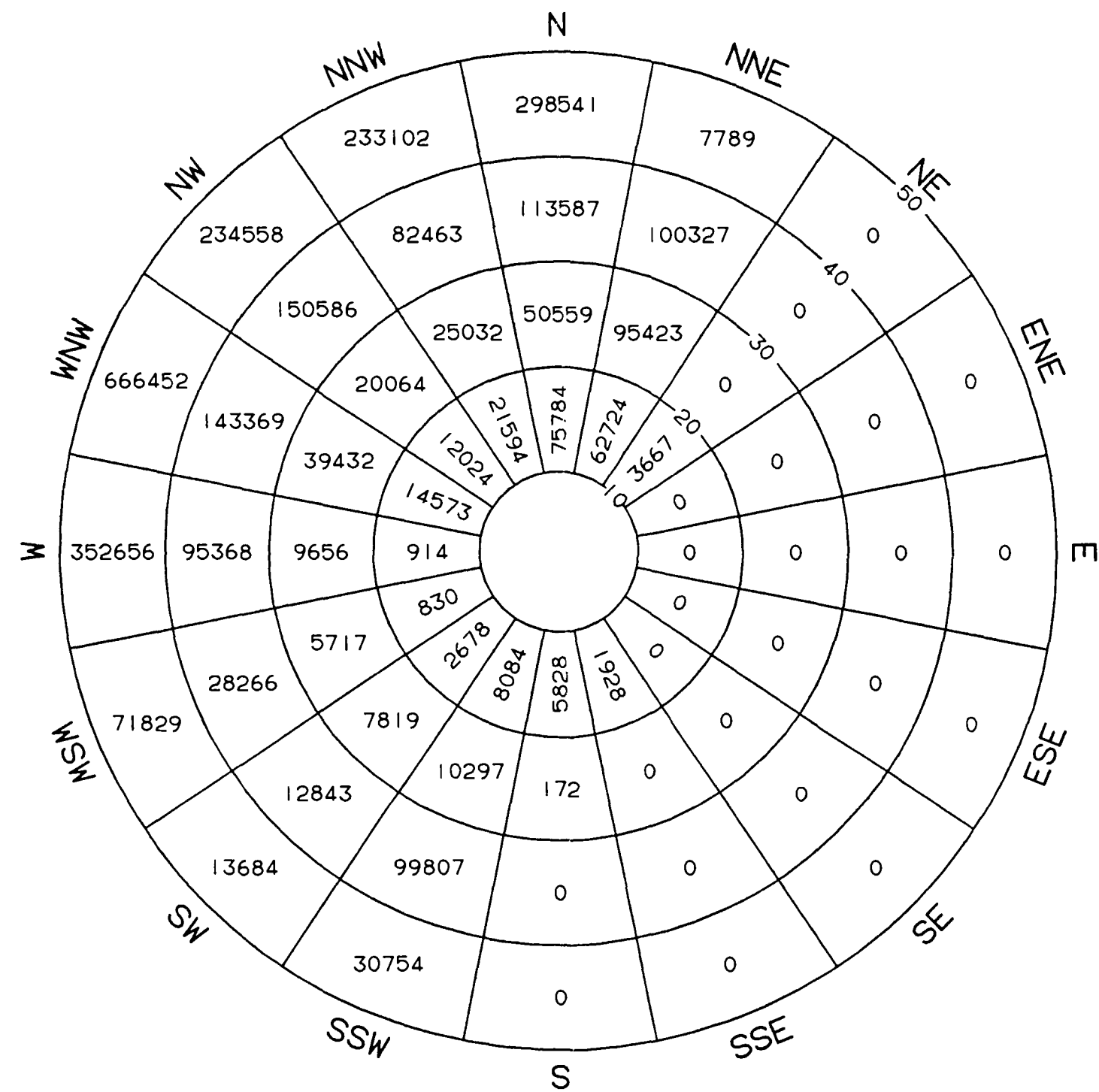


**GRU Nuclear**  
Oyster Creek

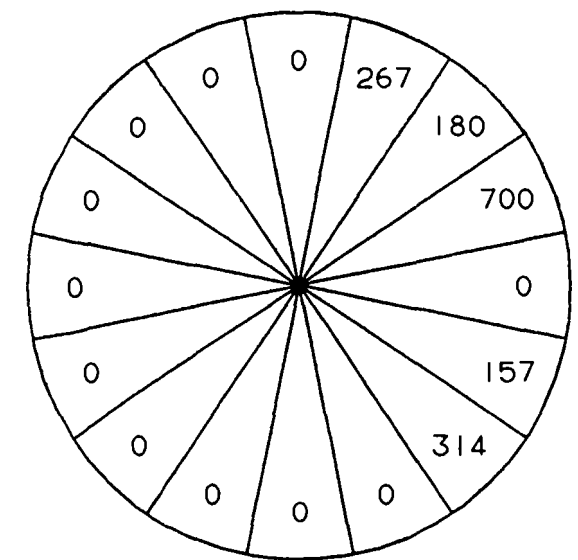
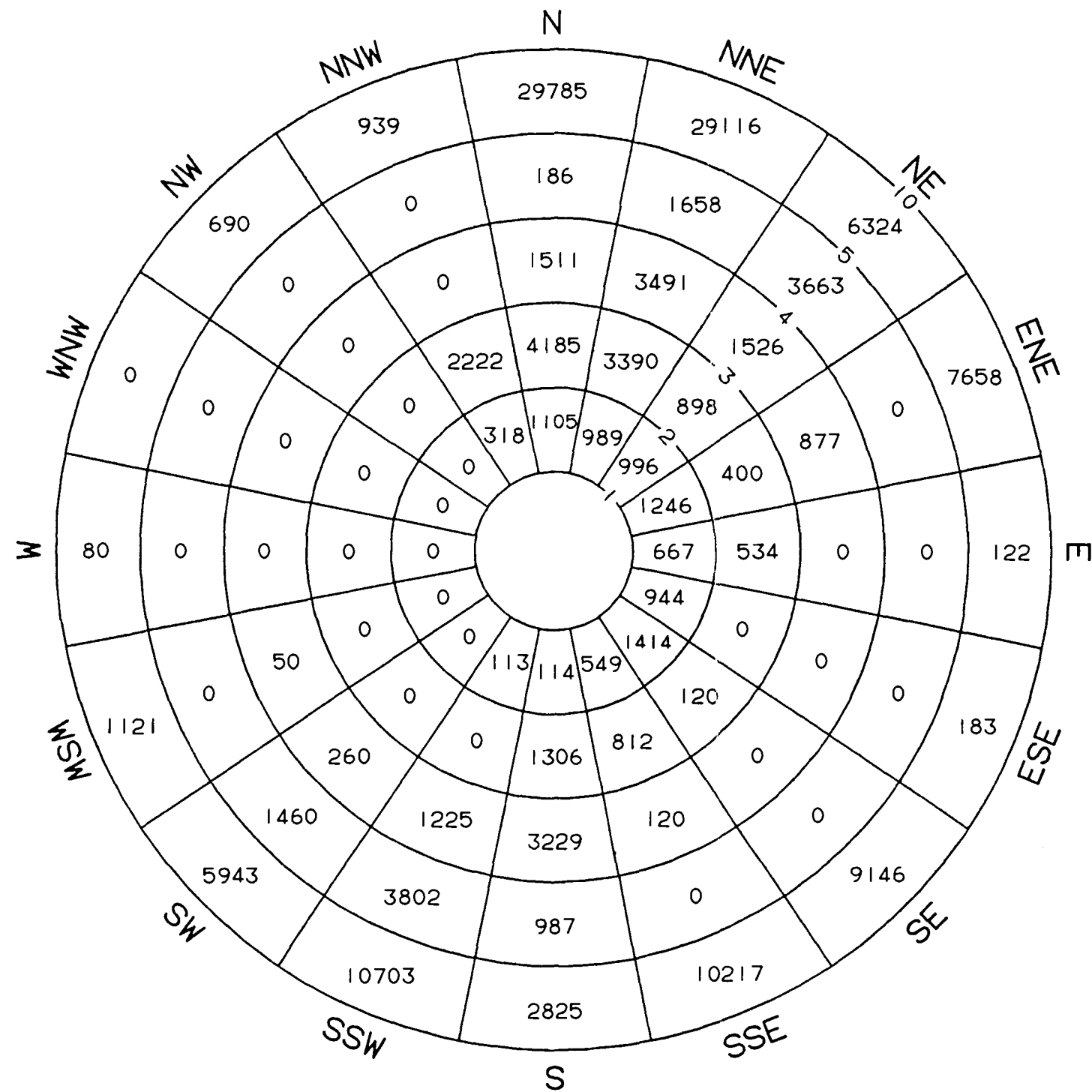
Update-8  
8/93

1990 Population  
Distribution, Five  
Mile Radius from  
Station - Percent  
by Sector

Fig.2.1-3



50 MILE RADIUS



**GPU Nuclear**

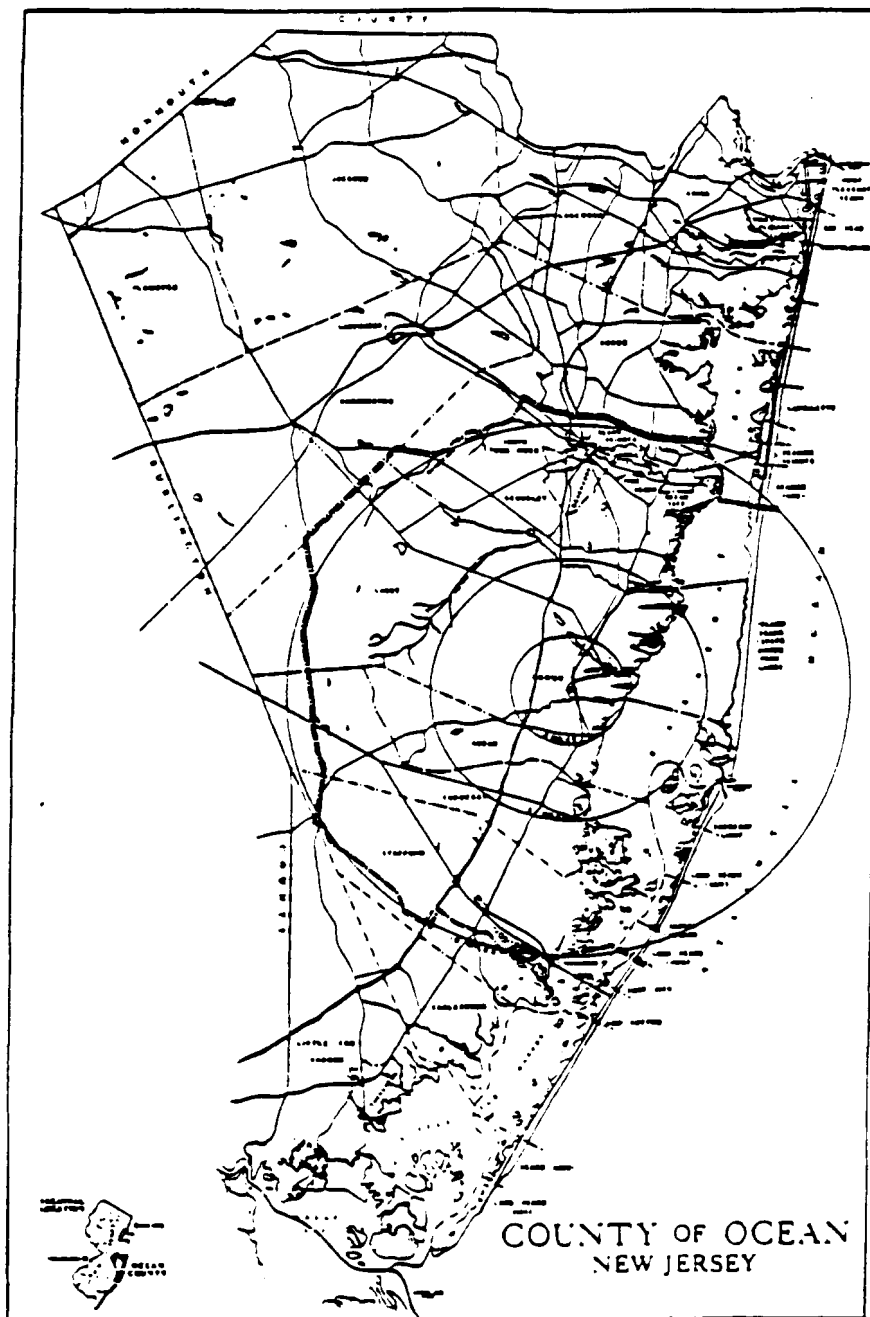
Update-8  
8/93

Oyster Creek

Distribution of Transient Population,  
10 Mile Radius - 1990 Census

CADD #  
S38,SKM,00,0582,001- Rev.0001

Fig.2.1-5

**GPU Nuclear**

## Update - 5

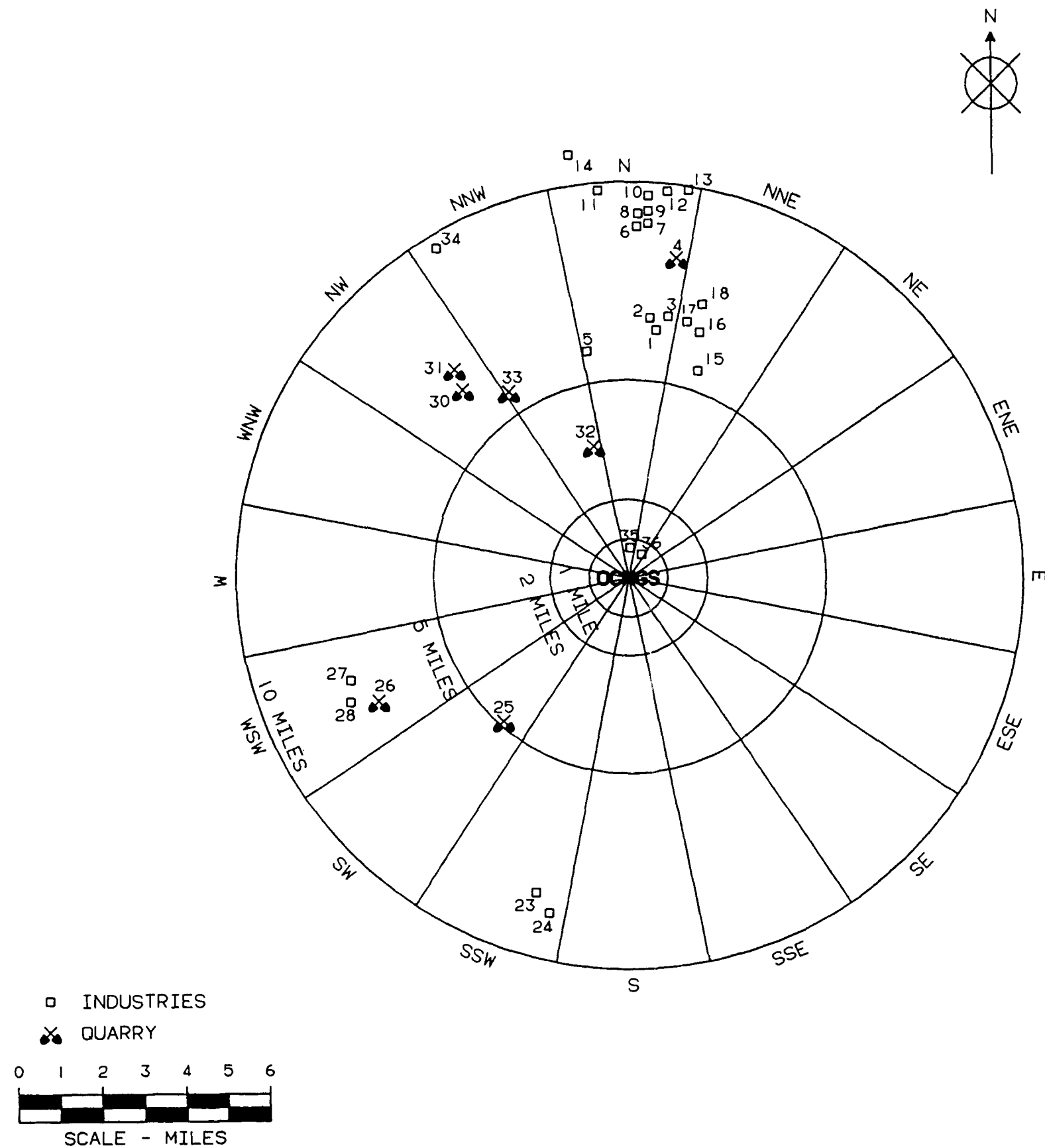
## Oyster Creek

12/90

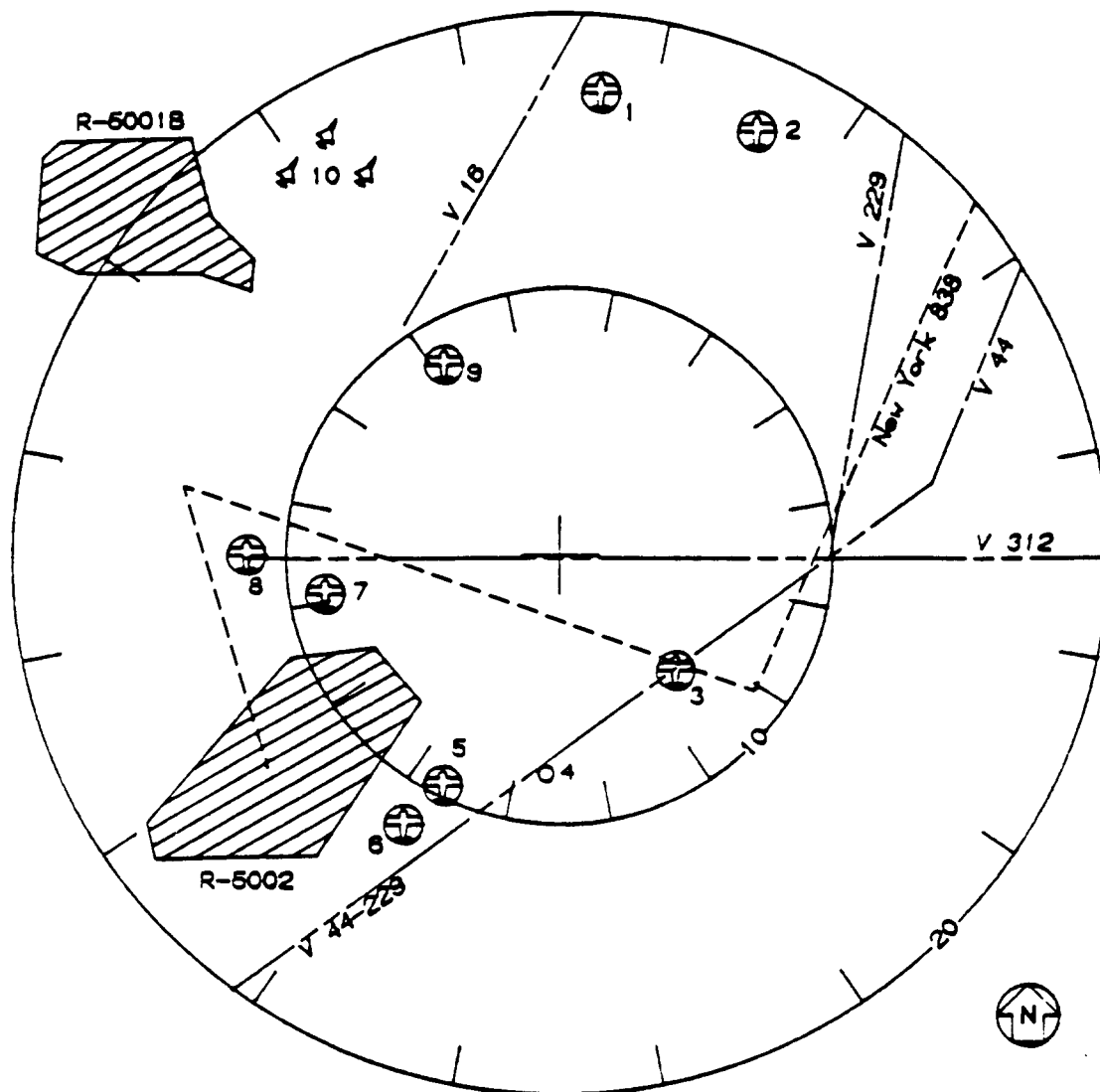
### Plume Exposure Pathway

**Fig. 2.1-6**















KEY:

-  - Airport
-  - Military Airstrip
-  - Heliport
-  - Commercial Air Lane
-  - Military Air Route
-  - Restricted Area

**GPU Nuclear**

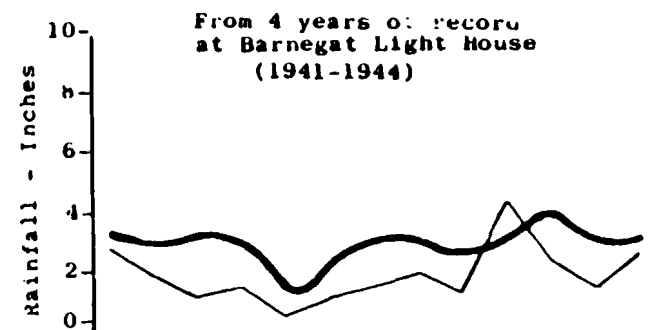
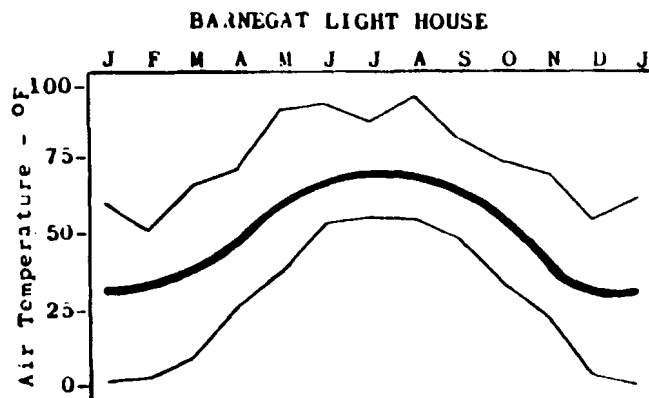
Update - 5

Oyster Creek

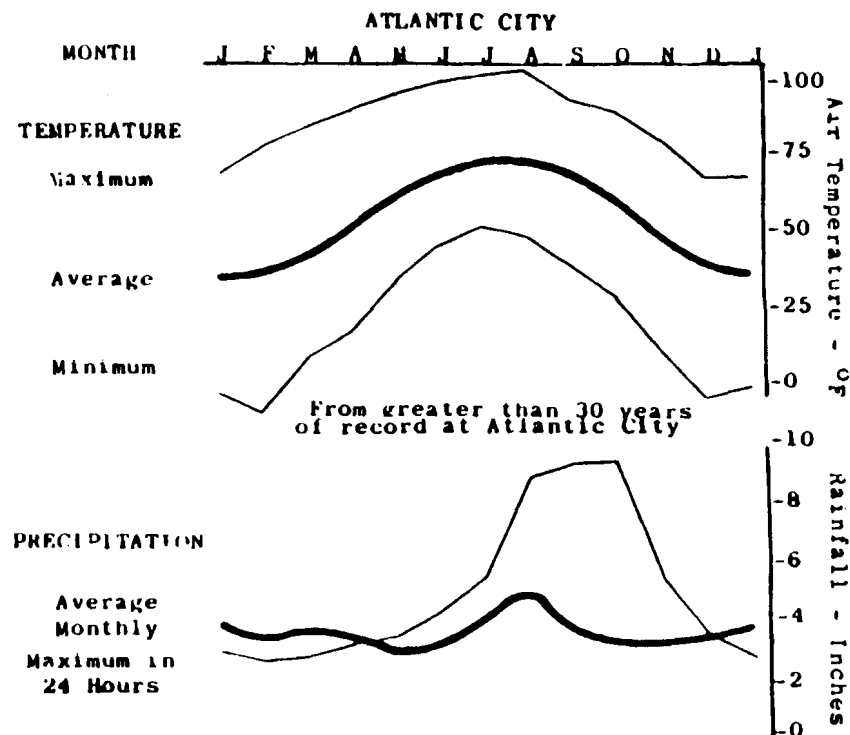
12/90

Airports and Other Air Facilities,  
20 Mile Radius

Fig. 2.2-2



50	50	50	50	60	60	60	50	60	50	50	60
↙	↙	↘	↙	↗	↙	↗	↖	↙	↖	↙	↙
46	39	75	33	53	40	30	25	38	48	34	42
↘	↘	↗	↗	↑	↗	↗	↗	↗	↘	↘	→
J	F	M	A	M	J	J	A	S	O	N	D



% Sky Cover	62	56	57	58	56	55	53	52	51	48	54	60
Direction of Fastest Wind	↙	↖	↖	↙	↙	↙	↗	←	↙	↙	←	↙
Fastest Wind (MPH)	73	77	72	80	59	57	61	76	91	72	72	70
Prevailing Wind	↘	↘	↘	↘	↗	↑	↗	↗	↗	↘	↘	↘
MONTH	J	F	M	A	M	J	J	A	S	O	N	D

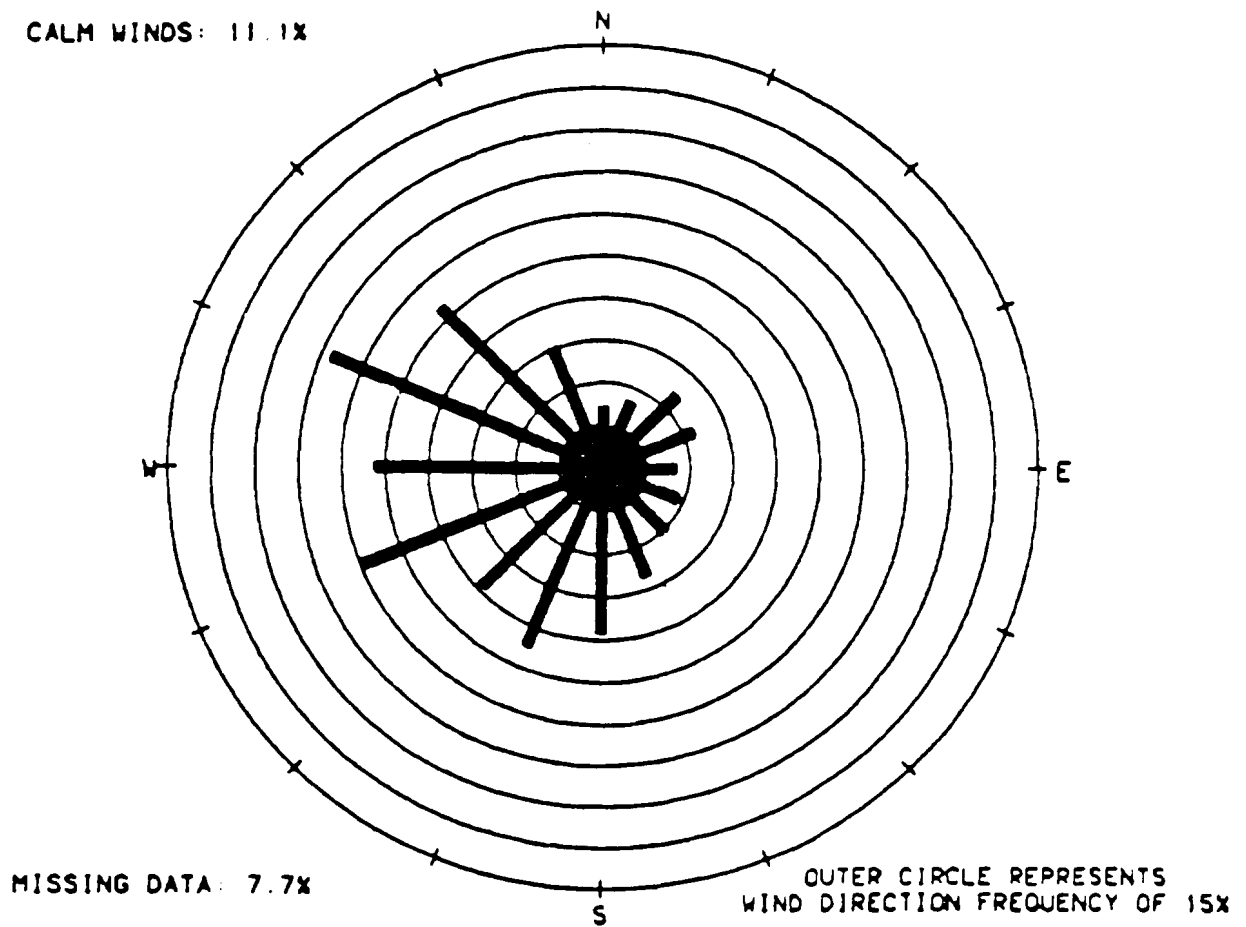
**GP7 Nuclear**  
Oyster Creek  
Climate of the Oyster Creek Site Region

Update - 5

12/90

Fig. 2.3-1

CALM WINDS: 11.1%



**GPU Nuclear**

Update - 5

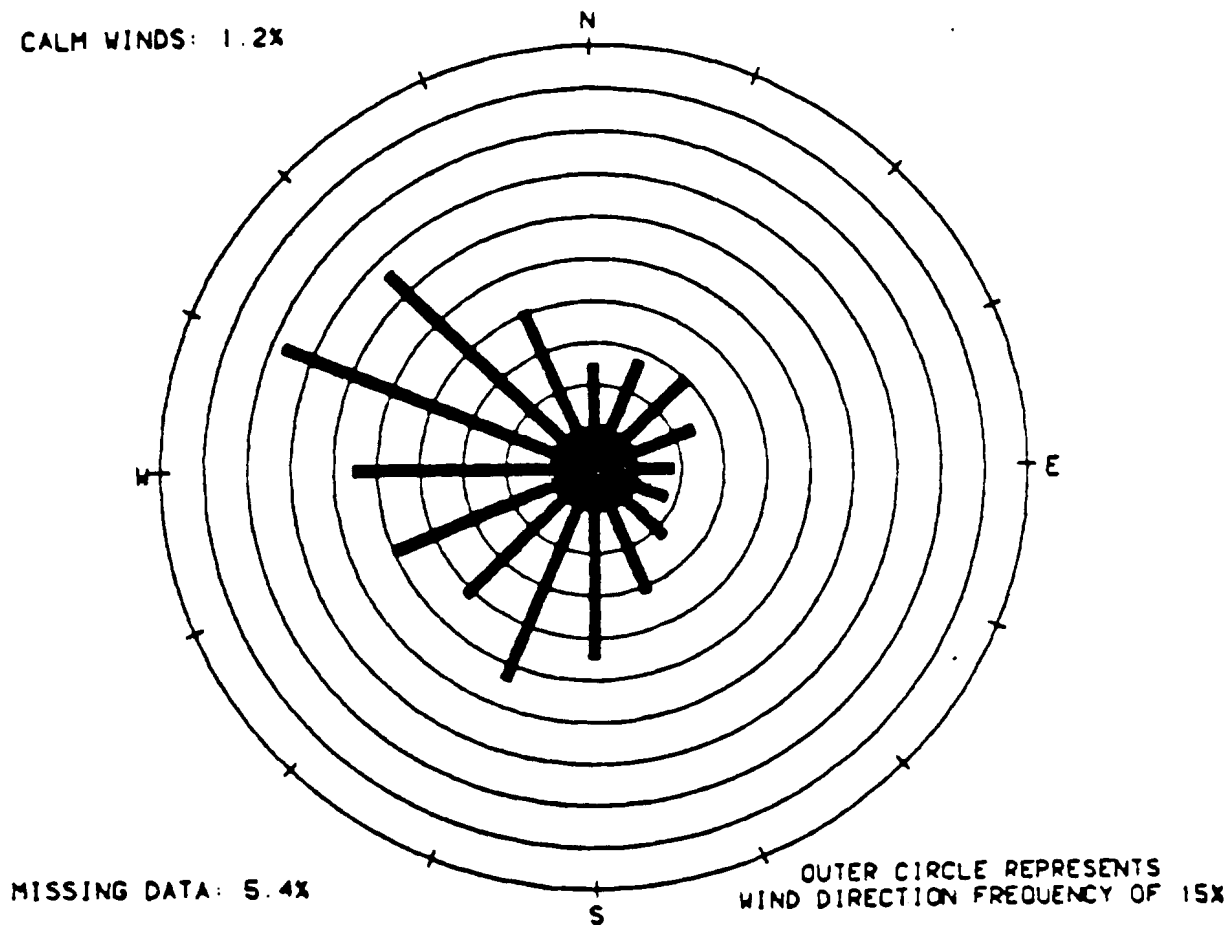
Oyster Creek

12/90

Annual Wind Rose: Five  
Year Average: 1977-1981, 33 Ft. Level

Fig. 2.3-2

CALM WINDS: 1.2%



**GPU Nuclear**

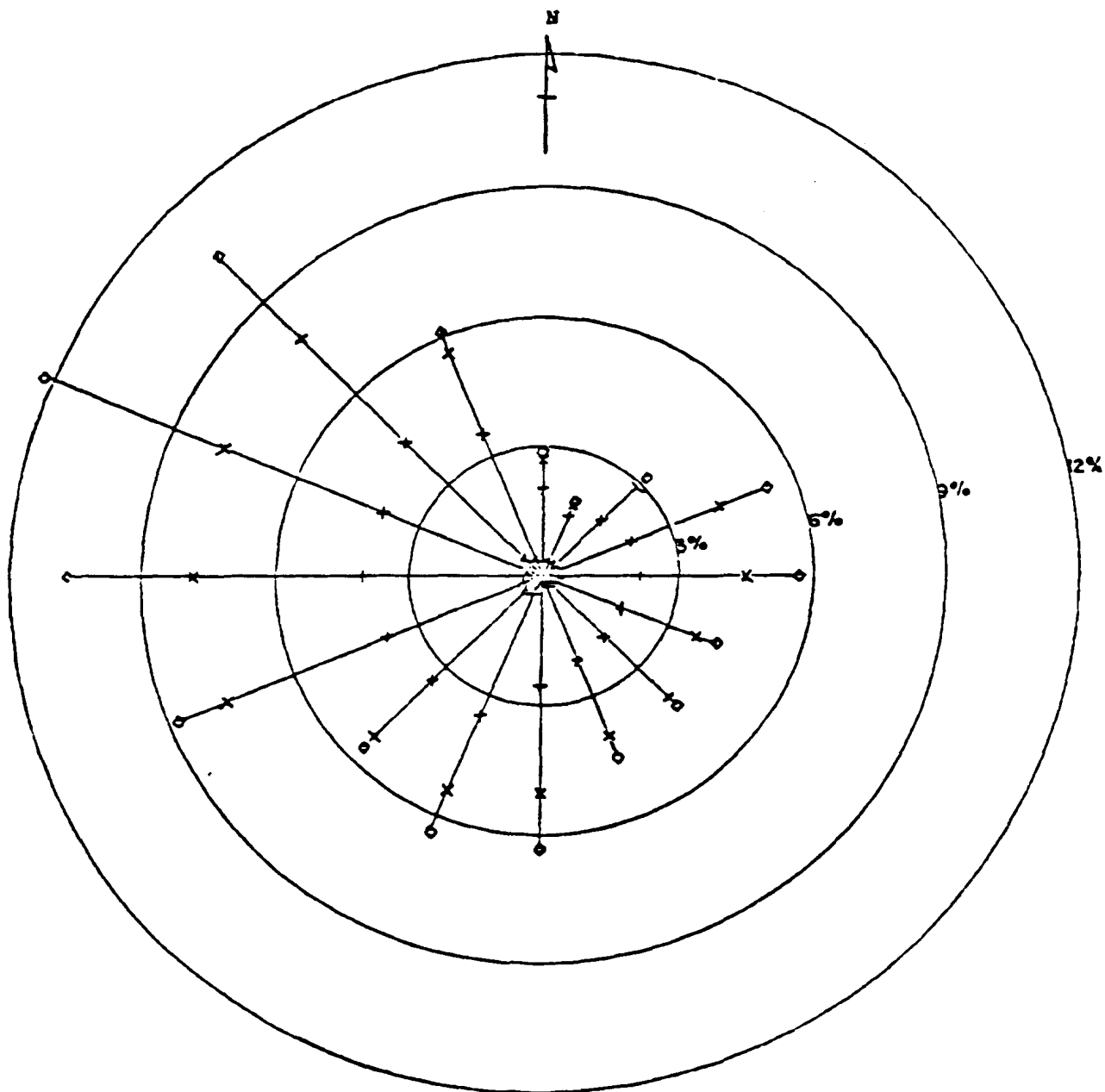
Update - 5

Oyster Creek

12/90

Annual Wind Rose: Five  
Year Average: 1977-1981, 380 Ft. Level

Fig. 2.3-3



1.66 PERCENT CALMS

- ▲ = WIND SPEEDS LESS THAN OR EQUAL TO 3 MPH
- + = WIND SPEEDS LESS THAN OR EQUAL TO 7 MPH
- X = WIND SPEEDS LESS THAN OR EQUAL TO 12 MPH
- ◇ = ALL WIND SPEEDS

**GPU Nuclear**

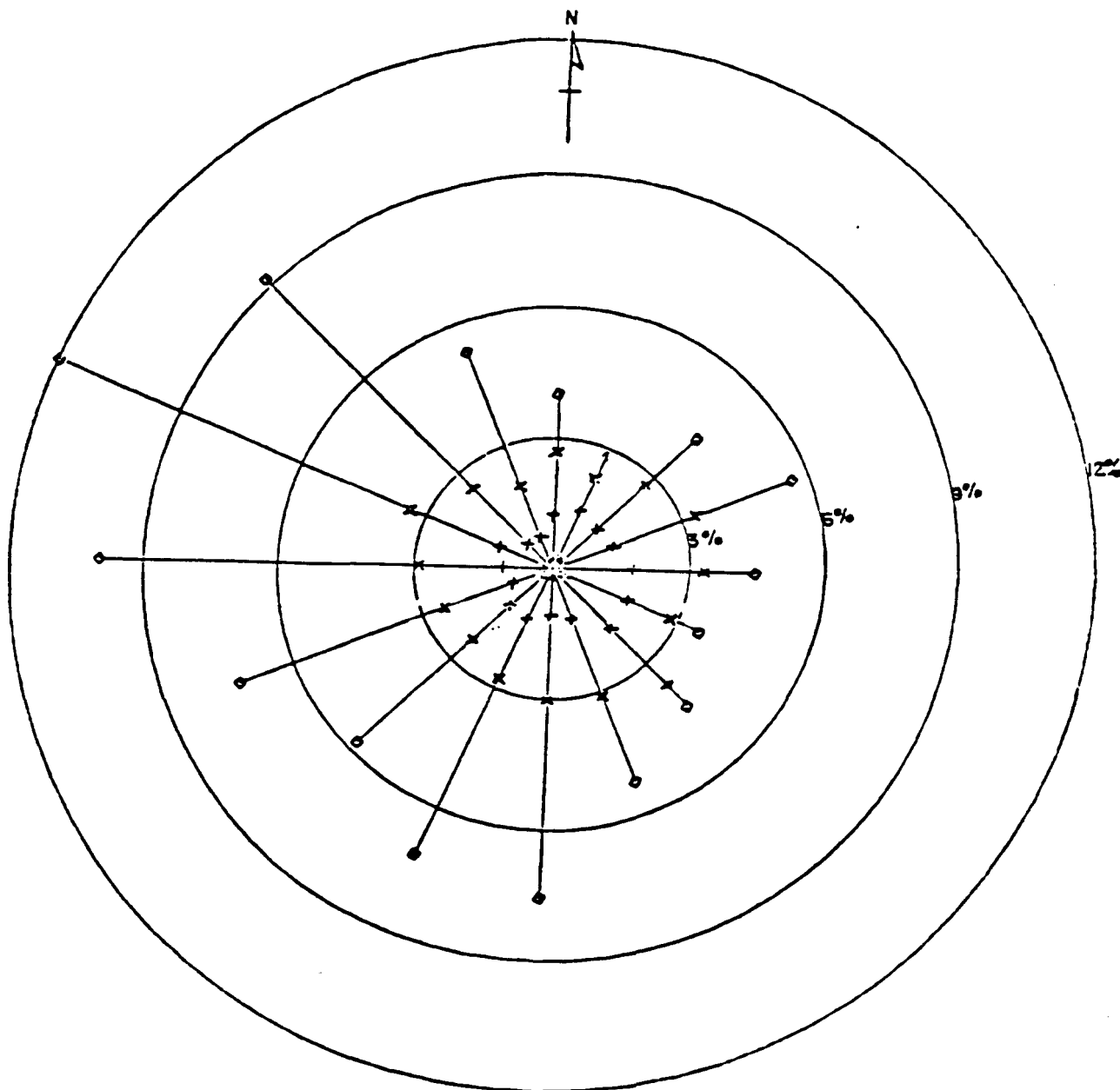
Update - 5

Oyster Creek

12/90

Oyster Creek 1968  
Wind Rose (75 Ft.)

Fig. 2.3-4



1.52 PERCENT CALMS

- ▲ = WIND SPEEDS LESS THAN OR EQUAL TO 3 MPH
- + = WIND SPEEDS LESS THAN OR EQUAL TO 7 MPH
- X = WIND SPEEDS LESS THAN OR EQUAL TO 12 MPH
- ◆ = ALL WIND SPEEDS

**GPU Nuclear**

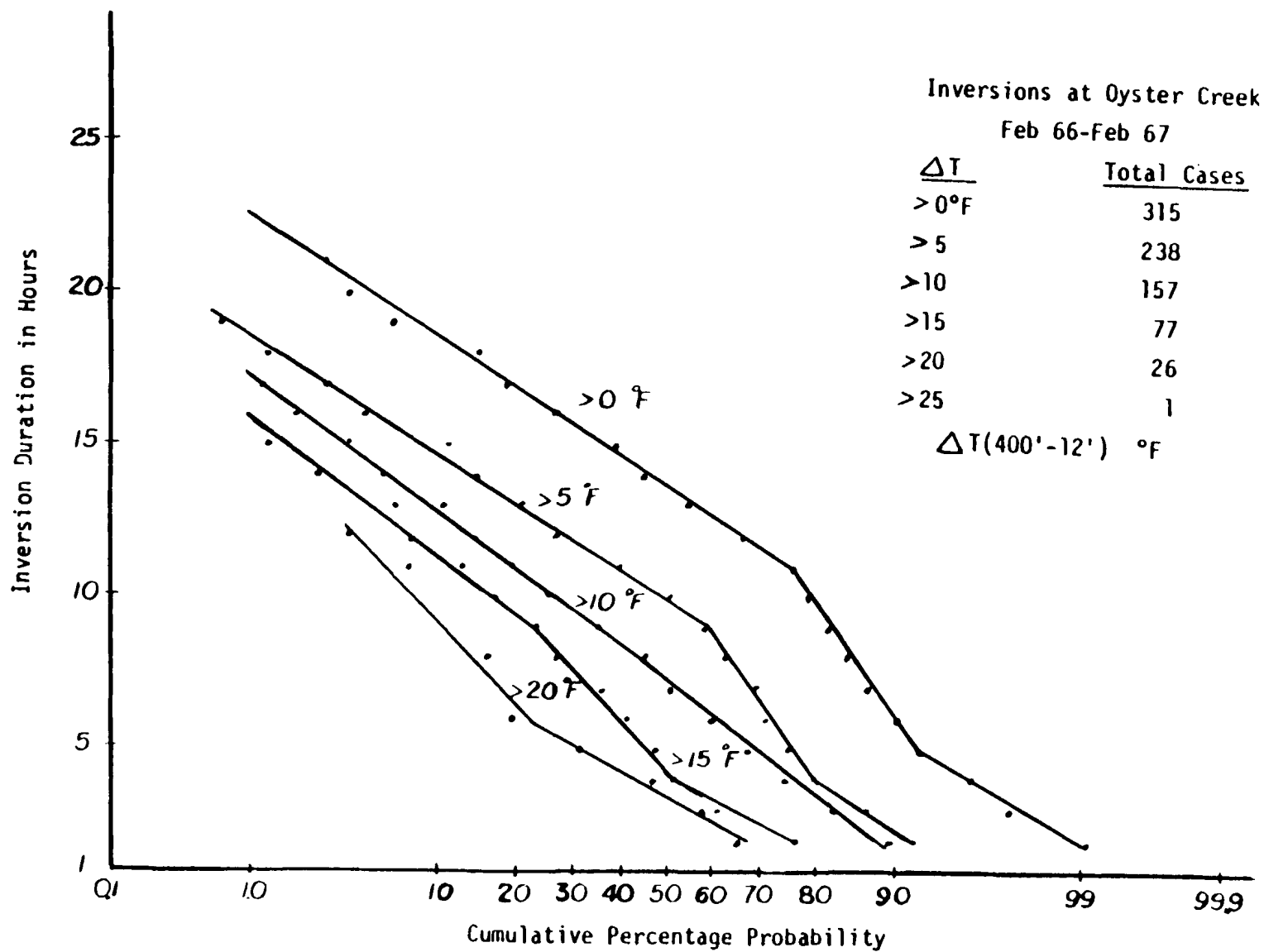
**Oyster Creek**

Oyster Creek 1968  
Wind Rose (400 Ft.)

**Update - 5**

**12/90**

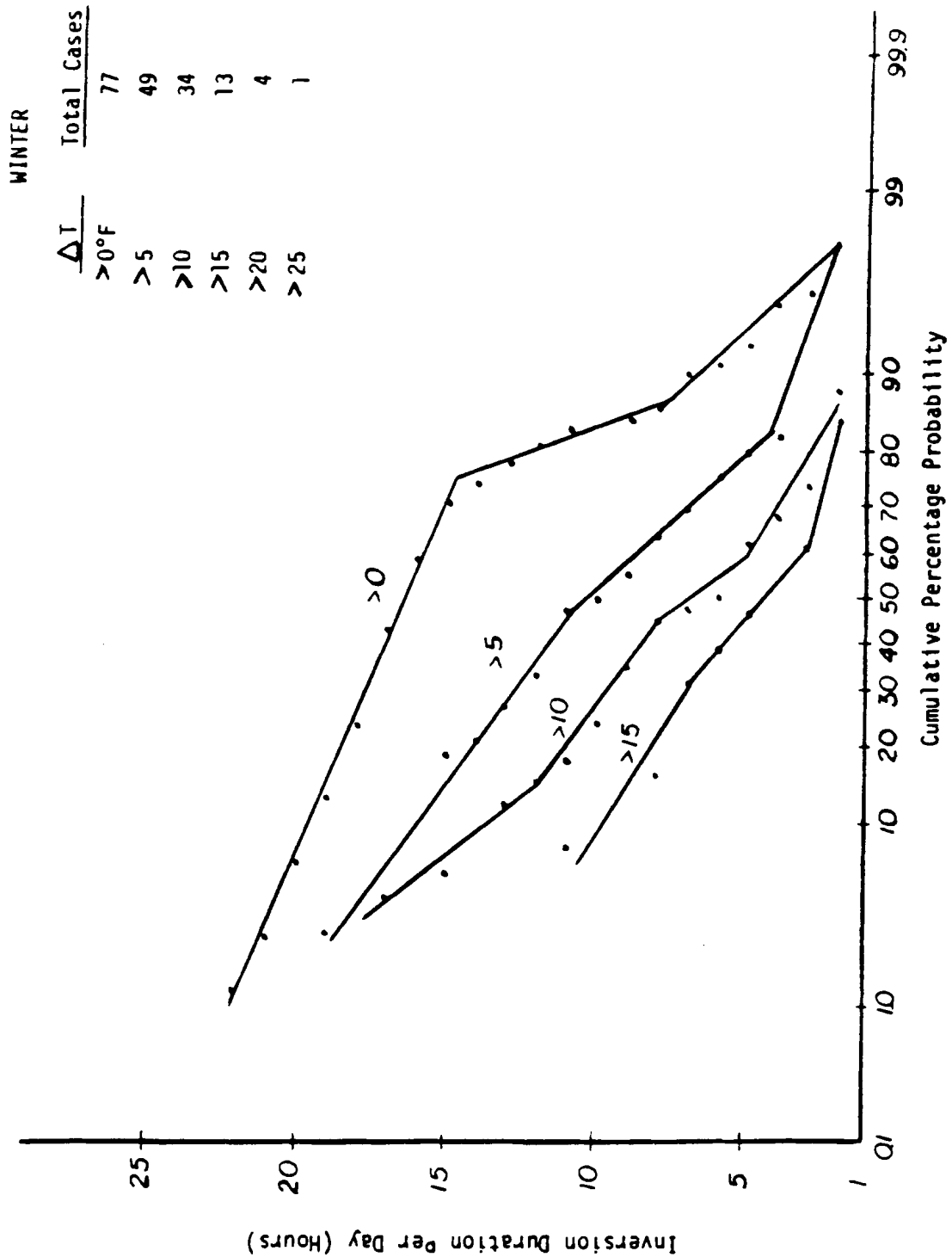
**Fig. 2.3-5**



**GE Nuclear**  
Oyster Creek  
Cumulative Percent Probability of Inversion  
Duration During Feb. 66 - Feb. 67 at the  
Oyster Creek Meteorological Tower

Update - 5  
12/90

Fig. 2.3-6



**GPU Nuclear**

Update - 5

Oyster Creek

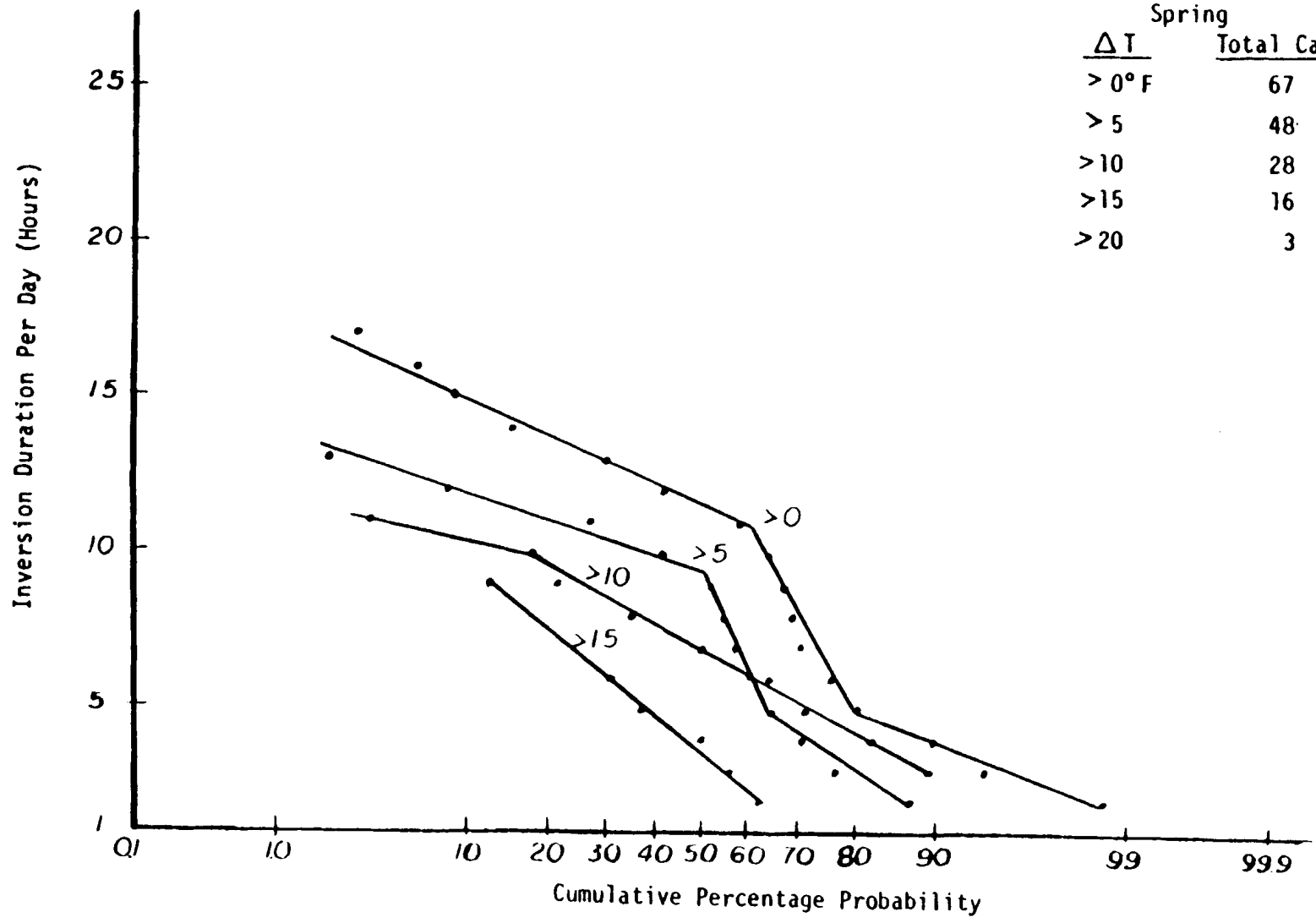
12/90

Cumulative Percent Probability of Inversion  
Duration During Winter at the Oyster Creek  
Meteorological Tower

Fig. 23-7



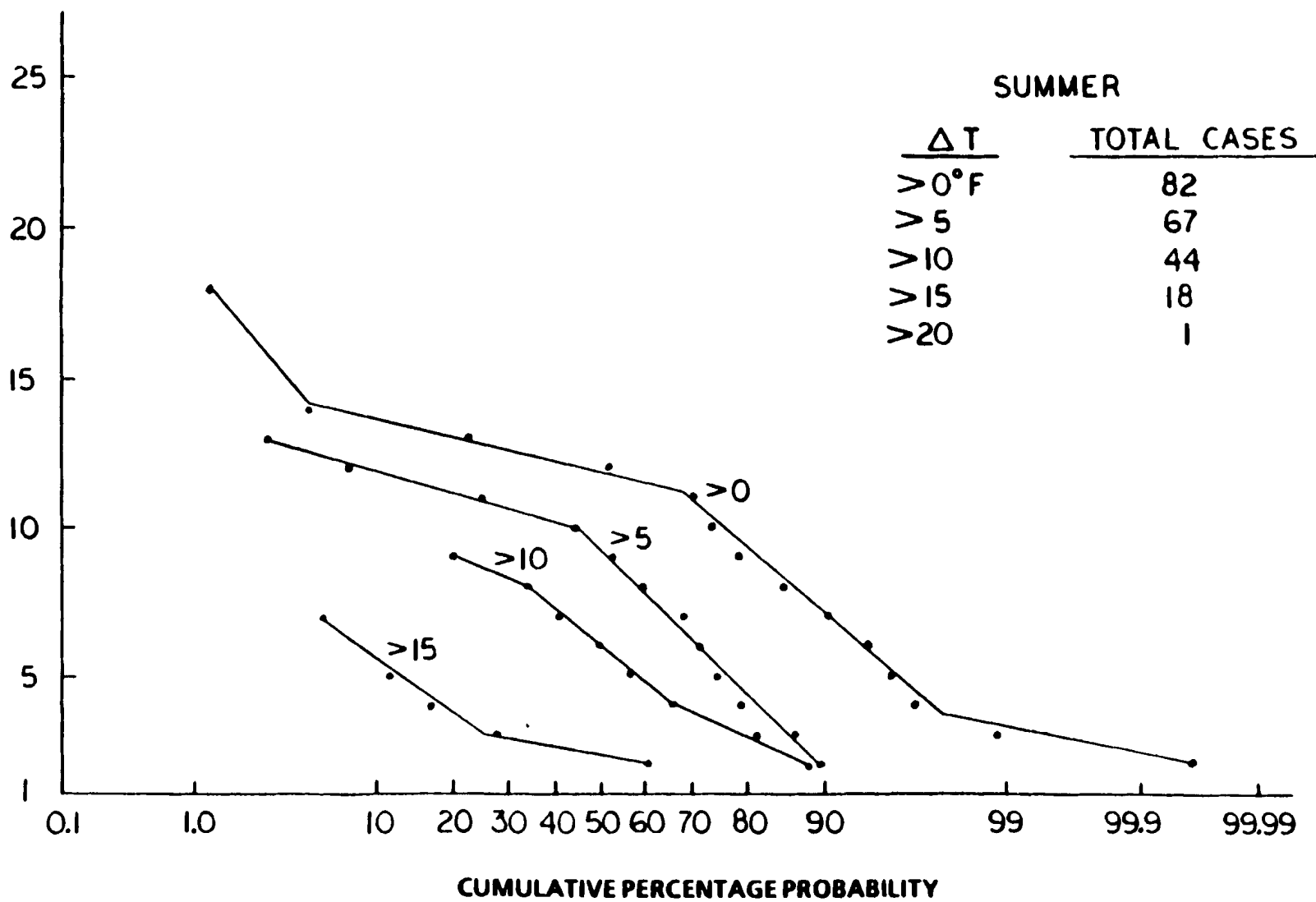
$\Delta T$	Spring Total Cases
> 0° F	67
> 5	48
> 10	28
> 15	16
> 20	3



**GPW Nuclear**  
**Oyster Creek**  
 Cumulative Percent Probability of Inversion  
 Duration During Spring at the Oyster Creek  
 Meteorological Tower

Update - 5  
 12/90

Fig. 2.3-8



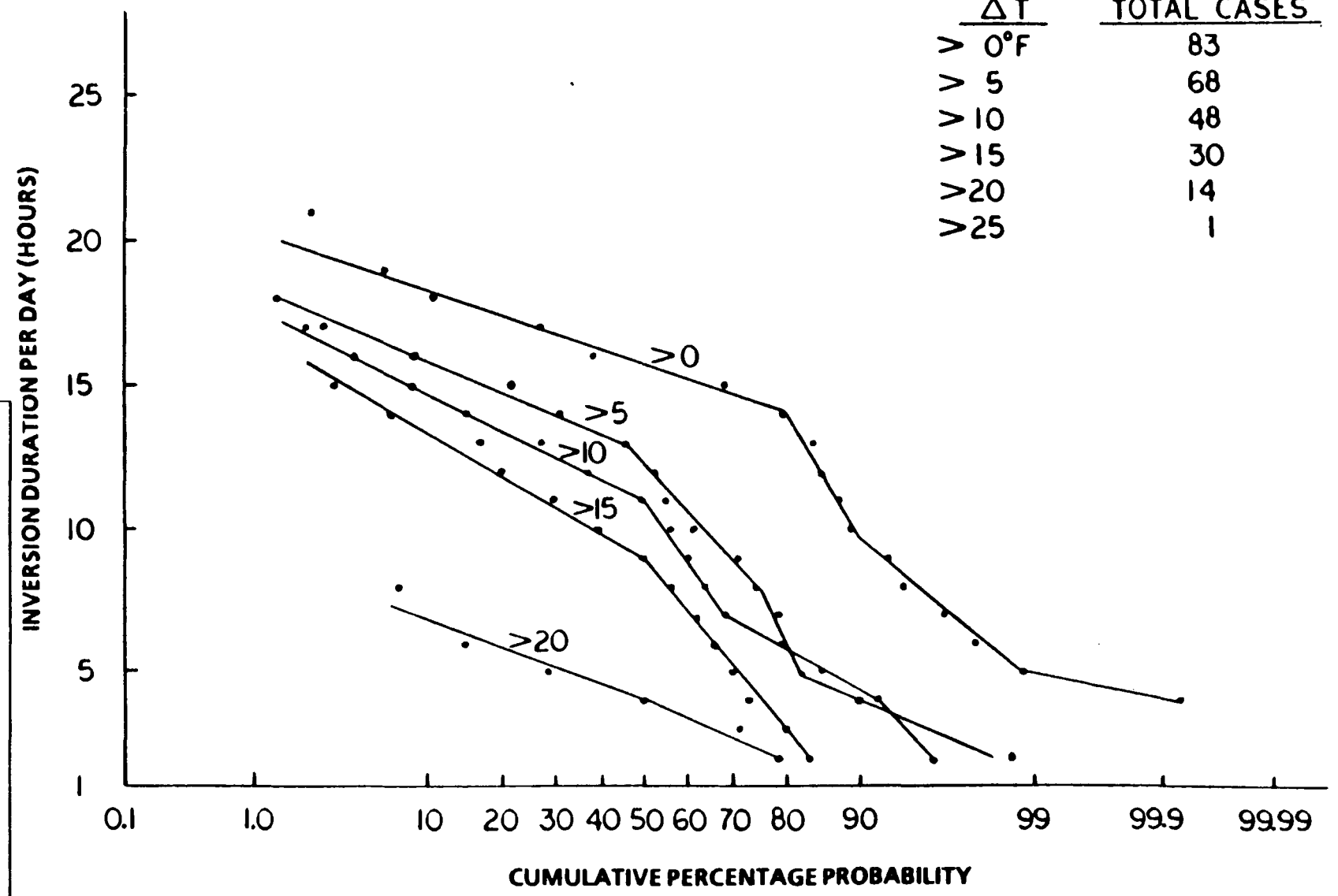
**GEI Nuclear**  
 Oyster Creek  
 Cumulative Percent Probability of Inversion  
 Duration During Summer at the Oyster Creek  
 Meteorological Tower

Update - 5

12/98

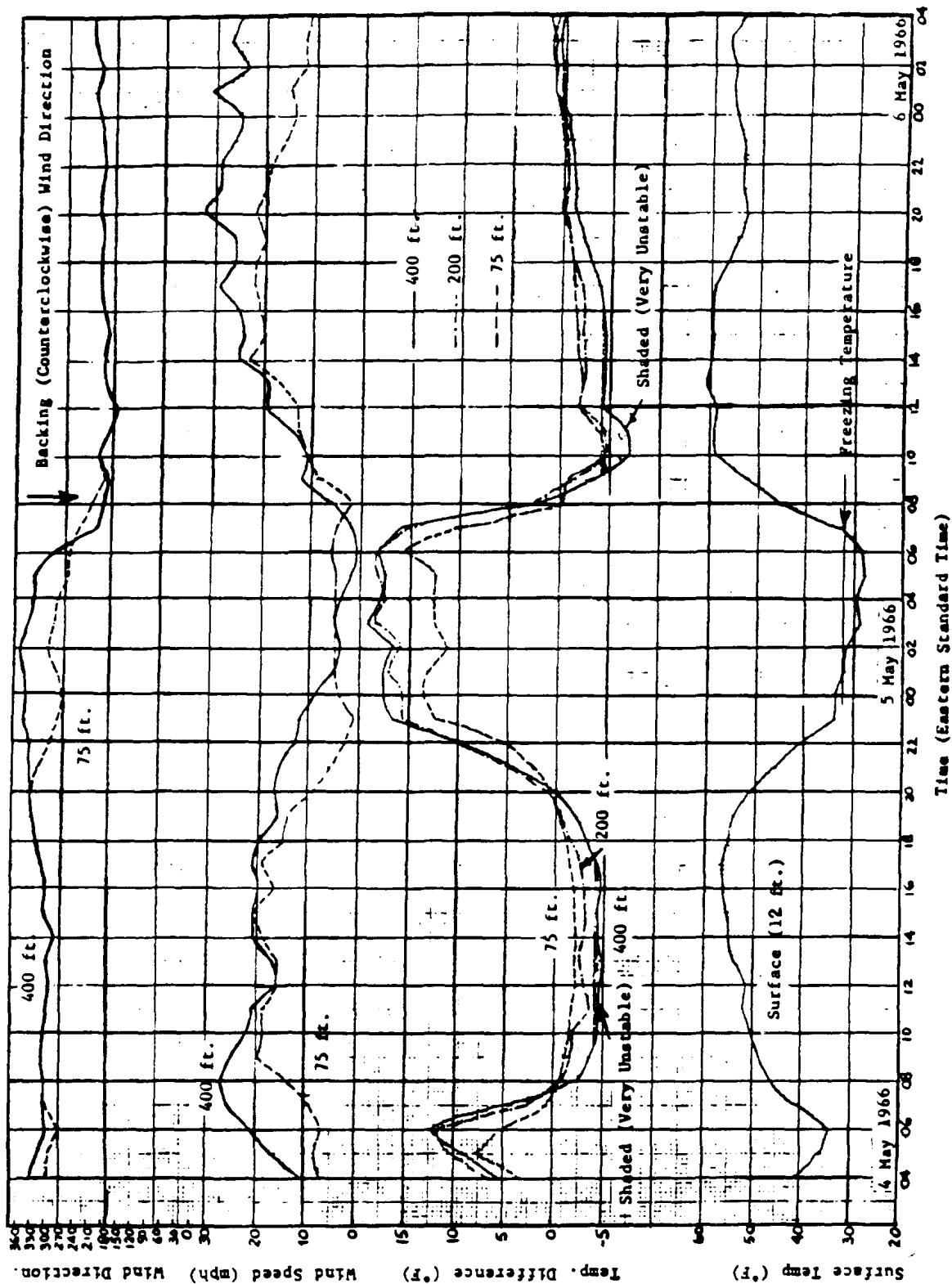
Fig. 2.3-9

FALL	
$\Delta T$	TOTAL CASES
> 0°F	83
> 5	68
> 10	48
> 15	30
> 20	14
> 25	1



**GF2 Nuclear**  
**Oyster Creek**  
 Cumulative Percent Probability of Inversion  
 Duration During Fall at the Oyster Creek  
 Meteorological Tower  
 Update - 5  
 12/90

Fig. 2.3-10



**GPU Nuclear**

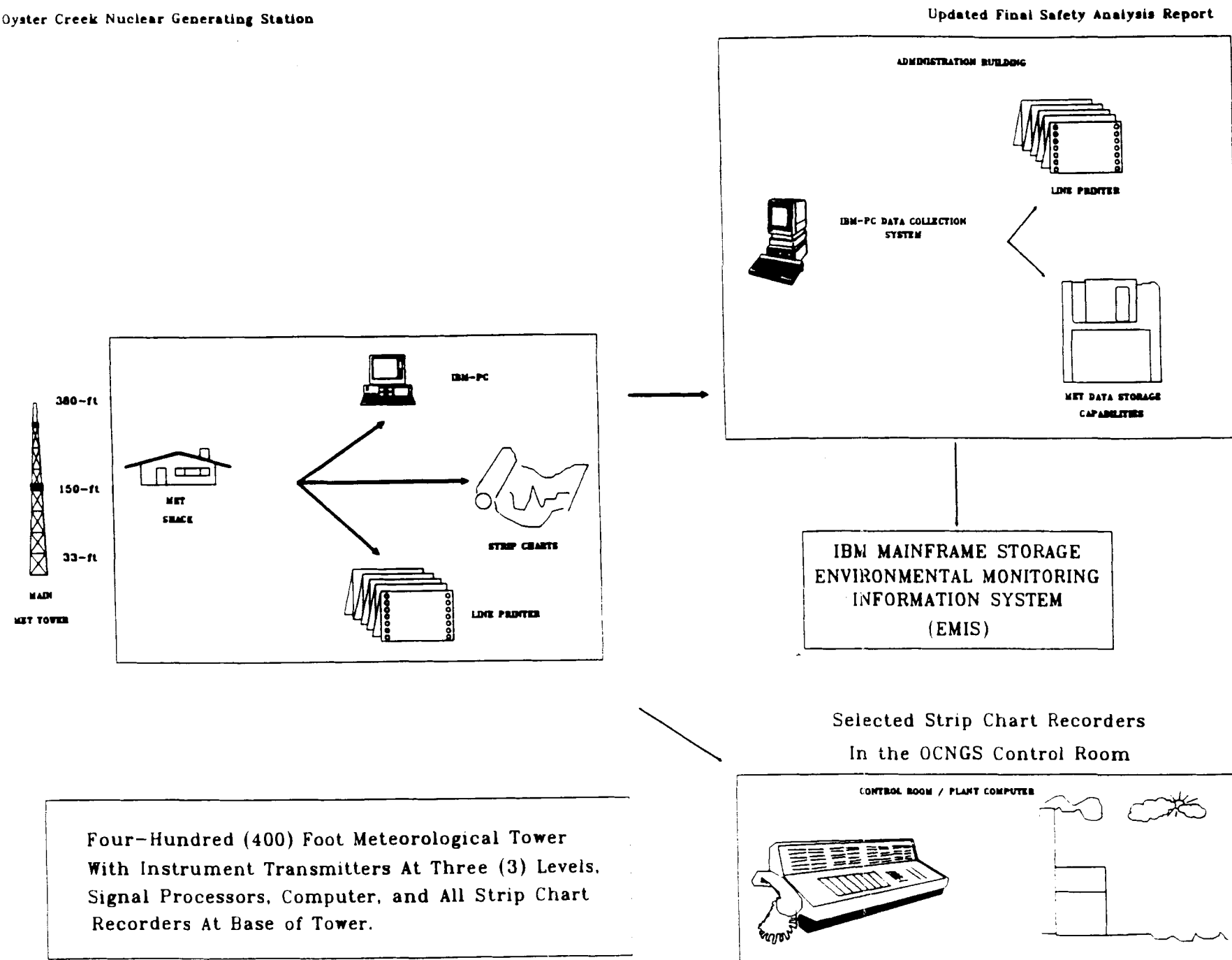
Update - 5

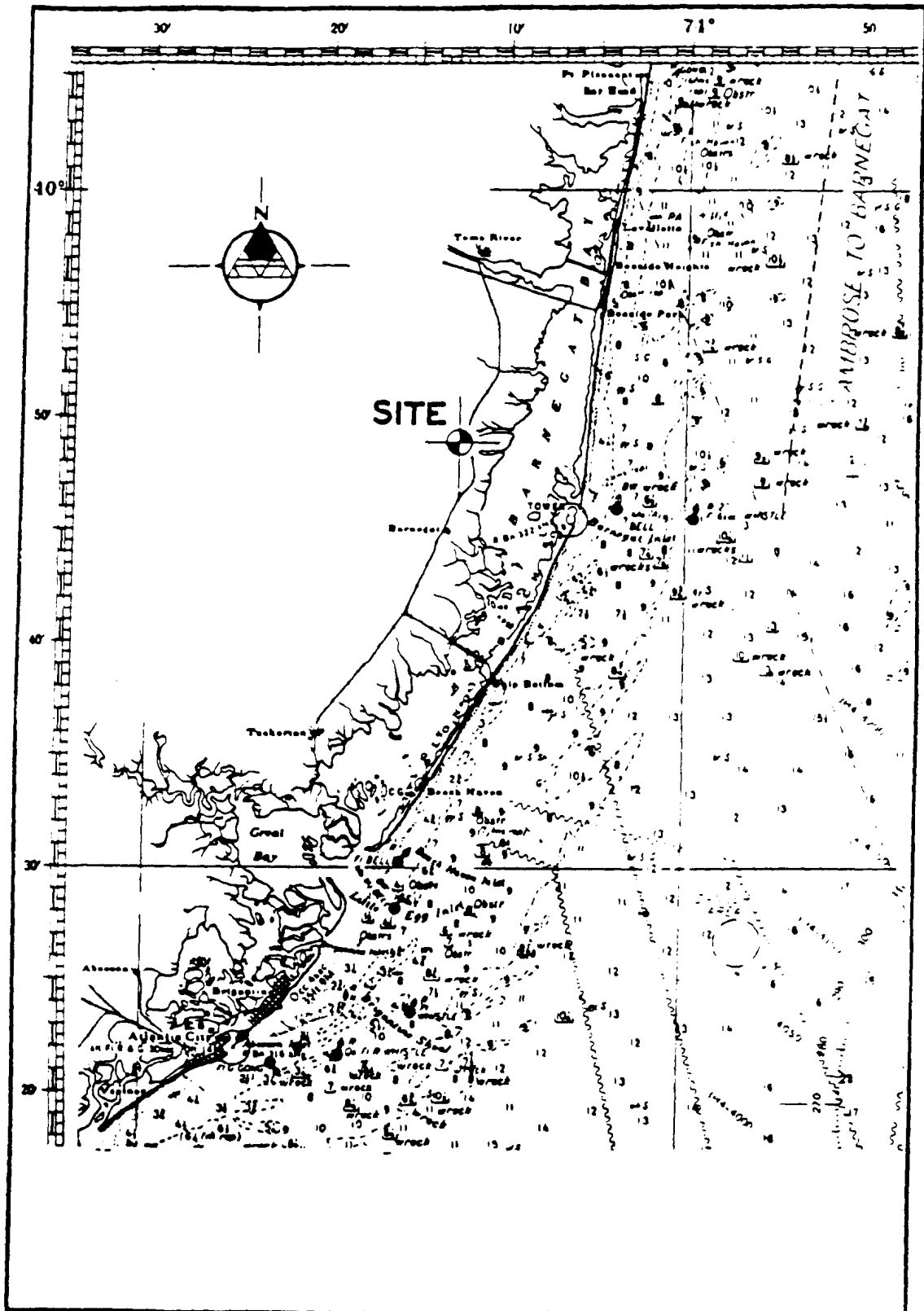
Oyster Creek

12/90

Example of Nocturnal Inversion Breakdown

Fig. 2.3-11





**GPU Nuclear**

**Oyster Creek**

**Site Location**

**Update - 5**

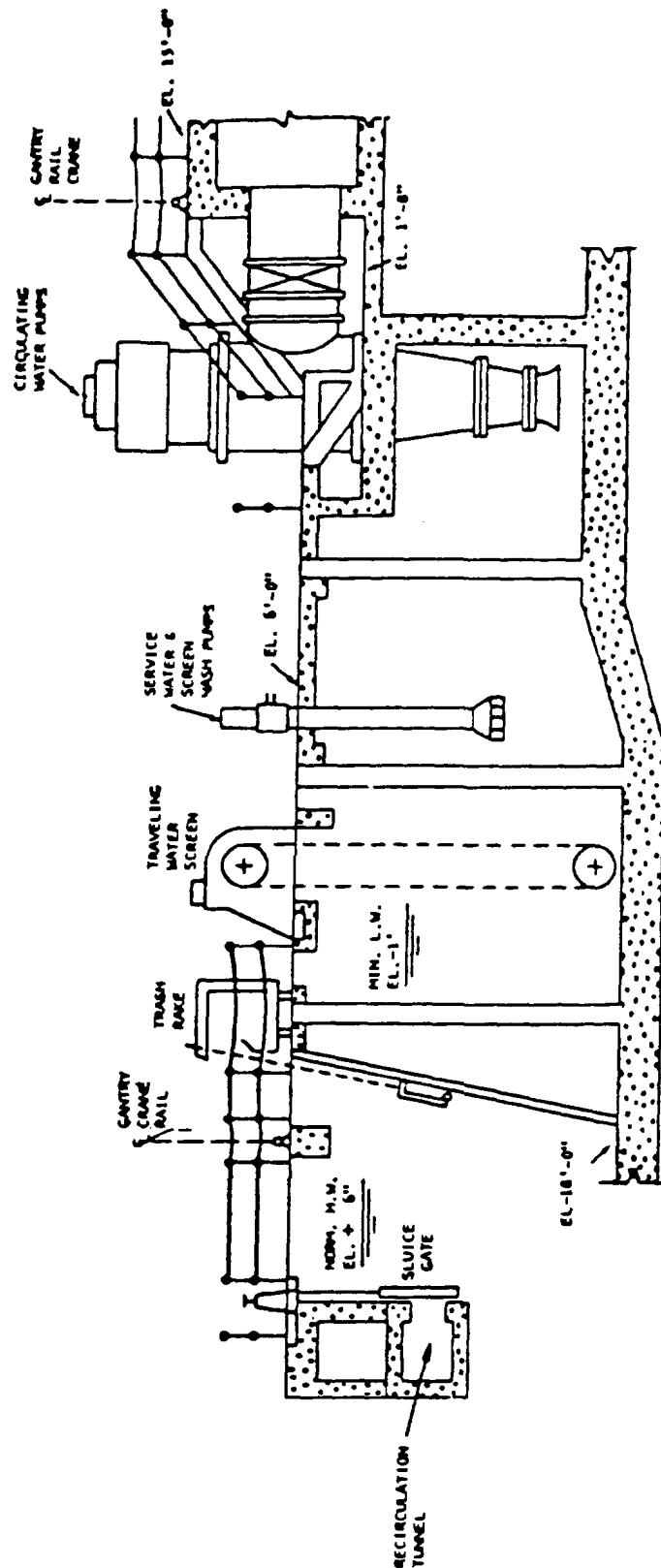
**12/90**

**Fig. 2.4-1**

## OCNGS UFSAR

Figures 2.4-2 through 2.4-4

Deleted



**GPU Nuclear**

Update - 5

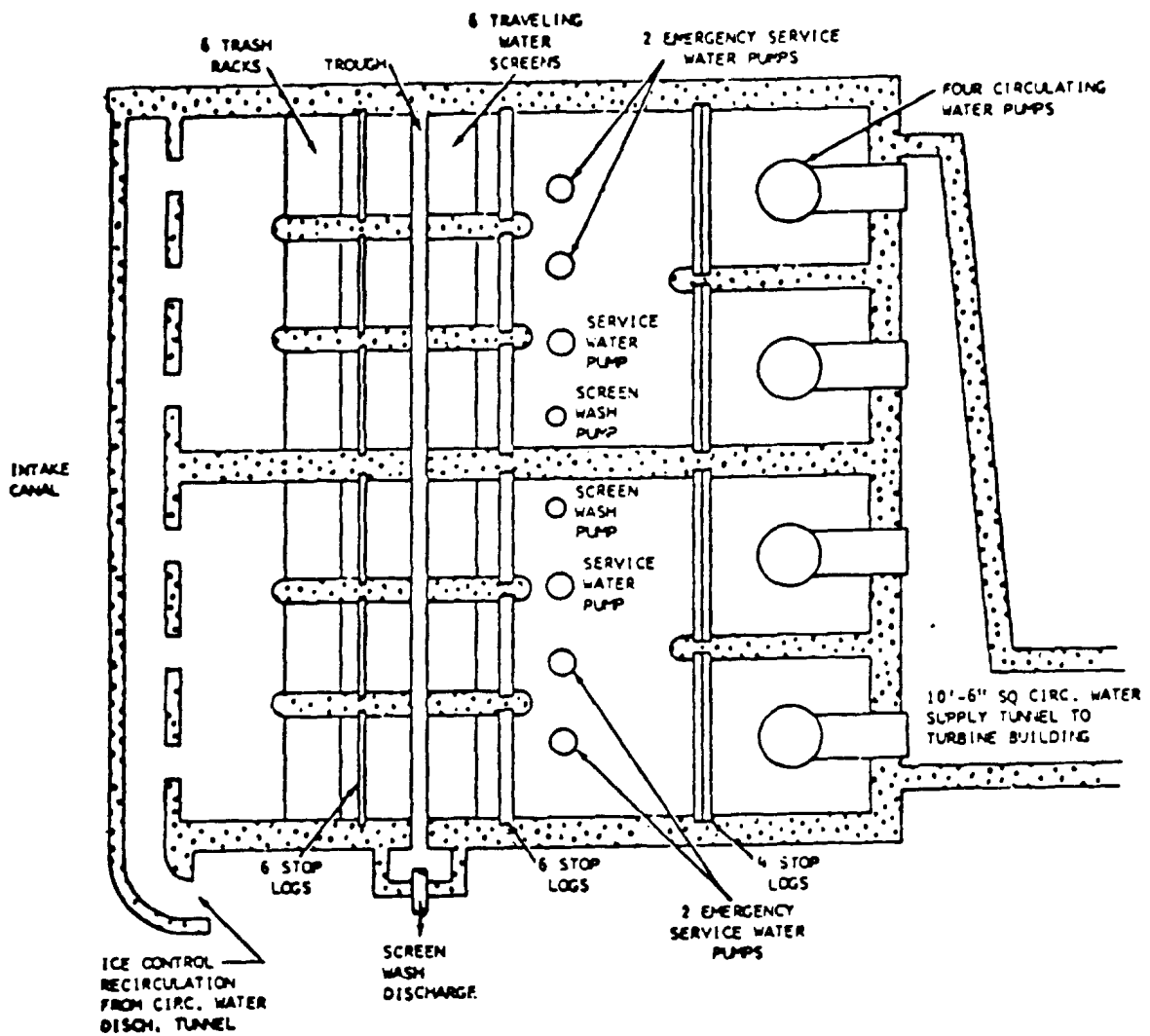
Oyster Creek

12/90

Intake Structure Section

Fig. 2.4-5





**GPU Nuclear**

Update - 5

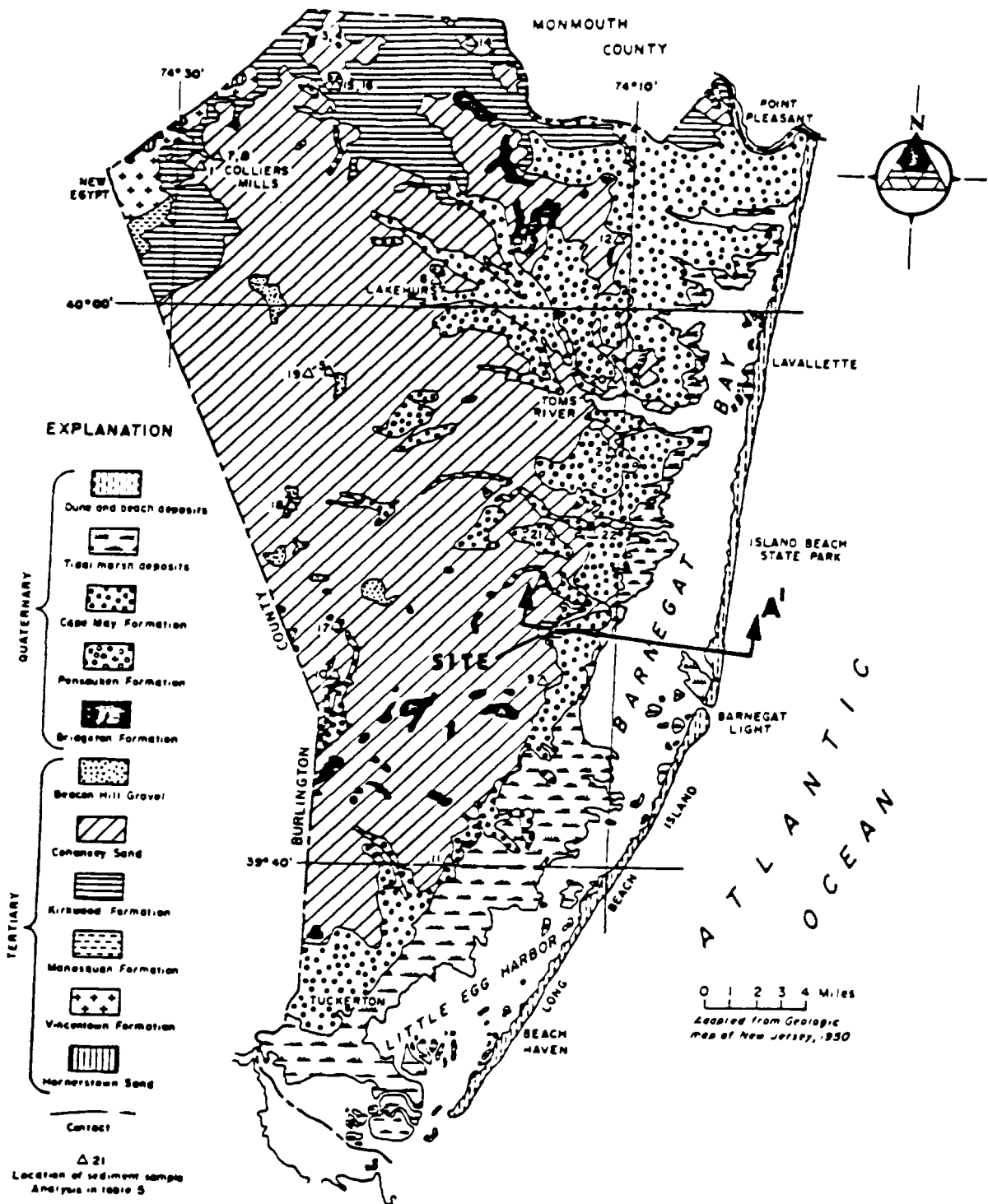
Oyster Creek

12/90

Intake Structure — Plan at Centerline of  
Recirculation Tunnel

Fig. 2.4-6

**GPU Nuclear**



**GPU Nuclear**

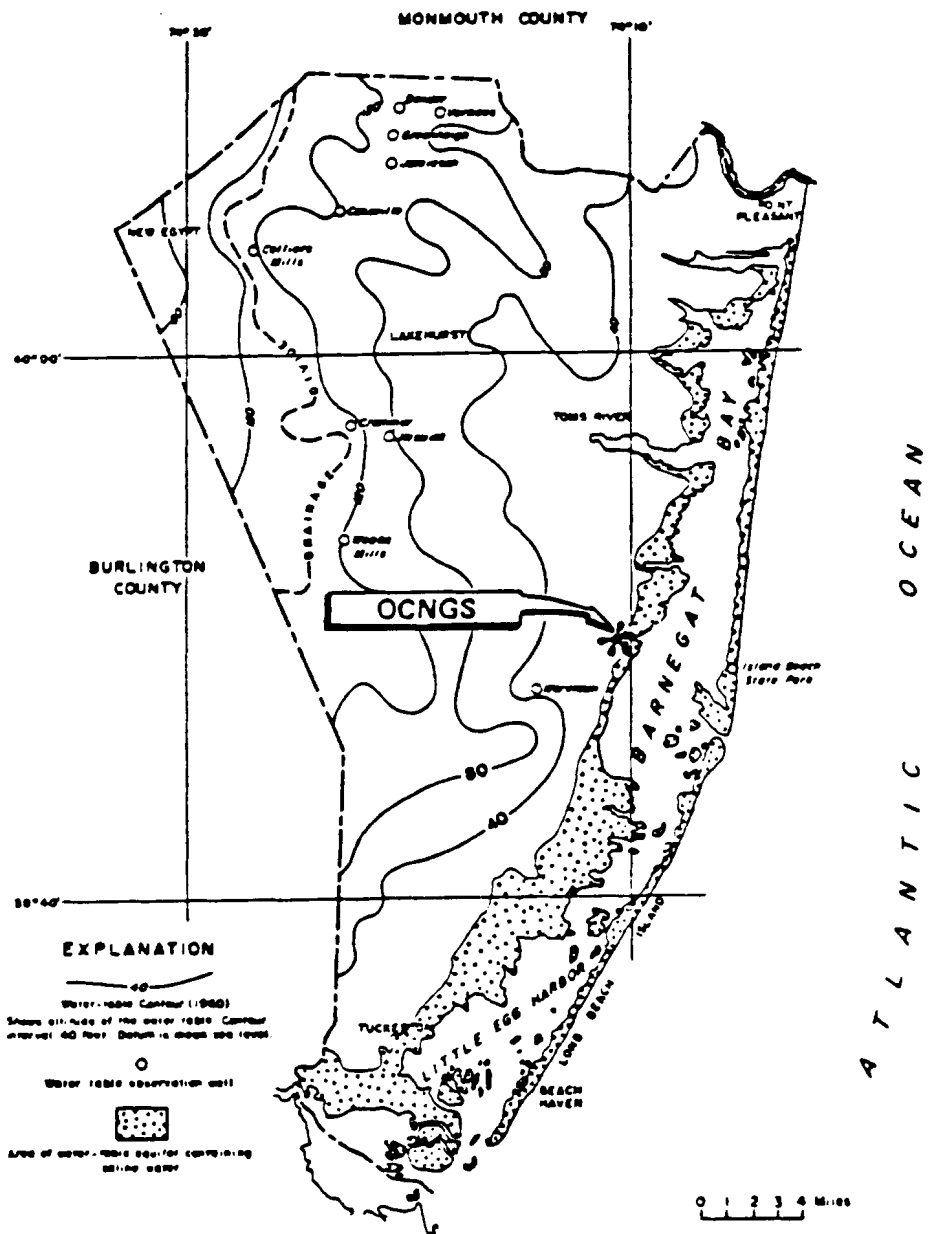
**Update - 5**

**Oyster Creek**

**12/90**

**Geologic Map of Ocean County**

**Fig. 2.4-8**



**GPU Nuclear**

**Update - 5**

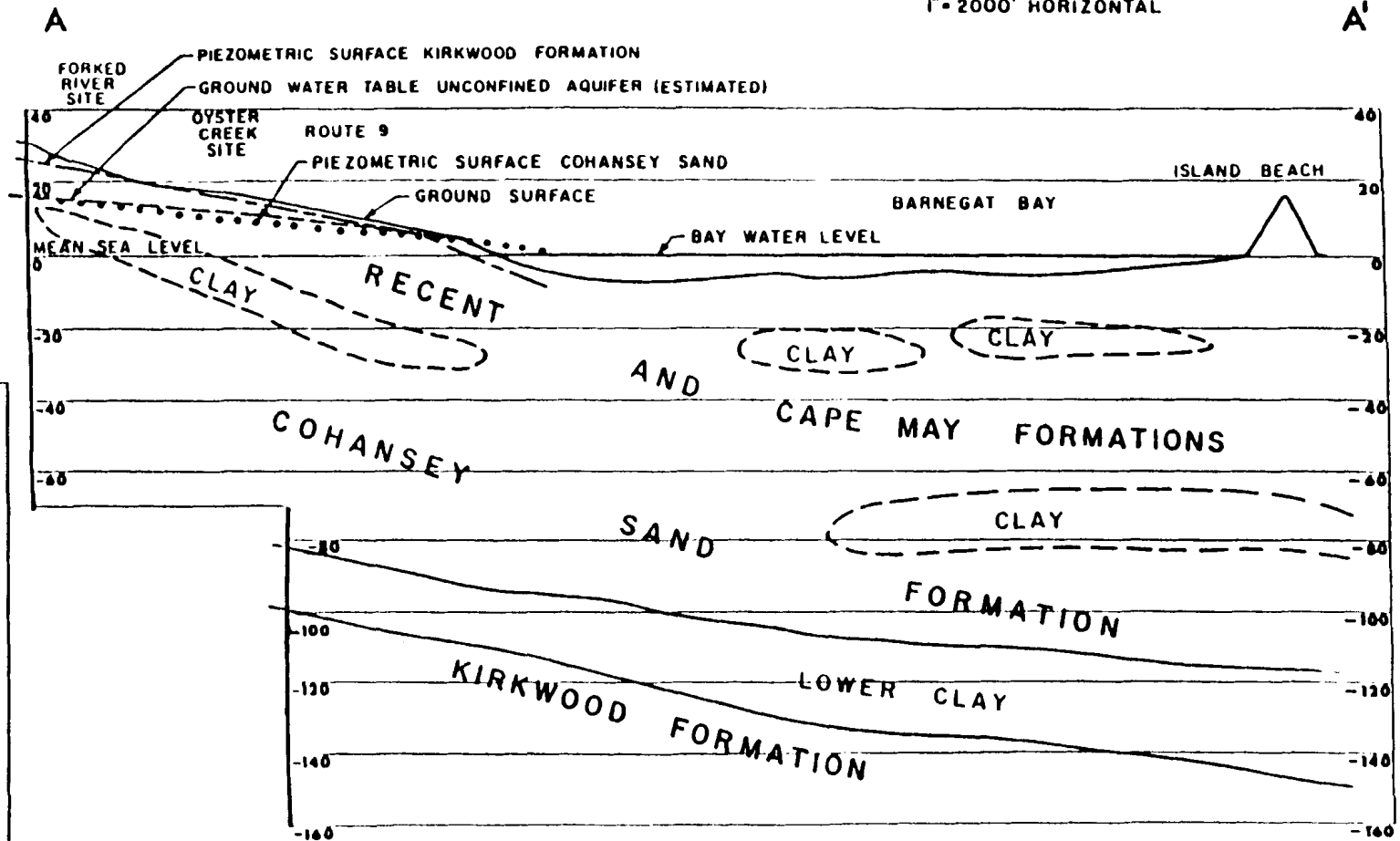
**Oyster Creek**

**12/90**

**Water Table Contour Map of Ocean County**

**Fig. 2.4-9**

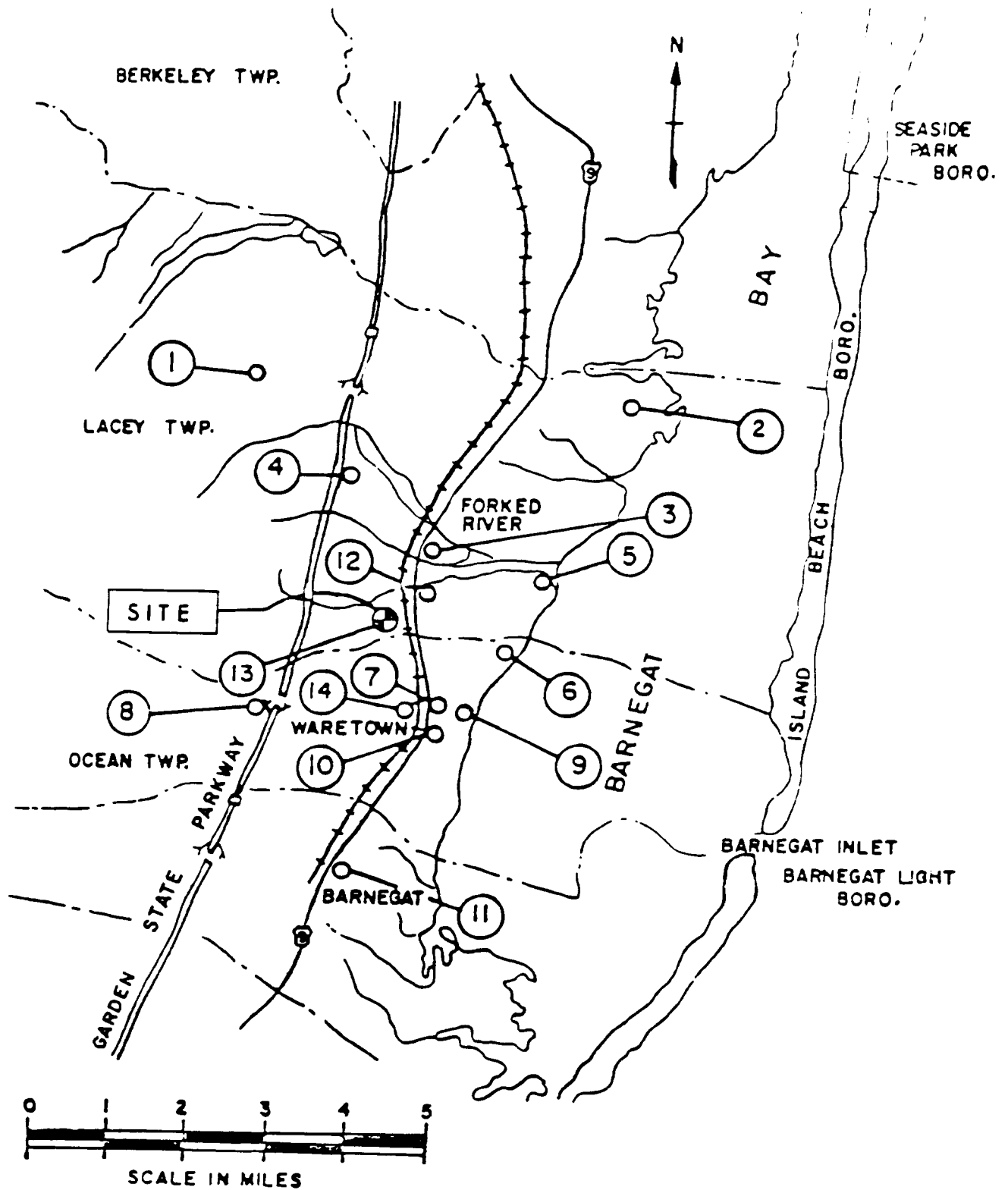
SCALE:  
 1" = 20' VERTICAL  
 1" = 2000' HORIZONTAL



**GP2 Nuclear**  
 Oyster Creek  
 Geohydrologic Cross — Section at  
 Oyster Creek

Update - 5  
 12/90

Fig. 2A-10



**GPU Nuclear**

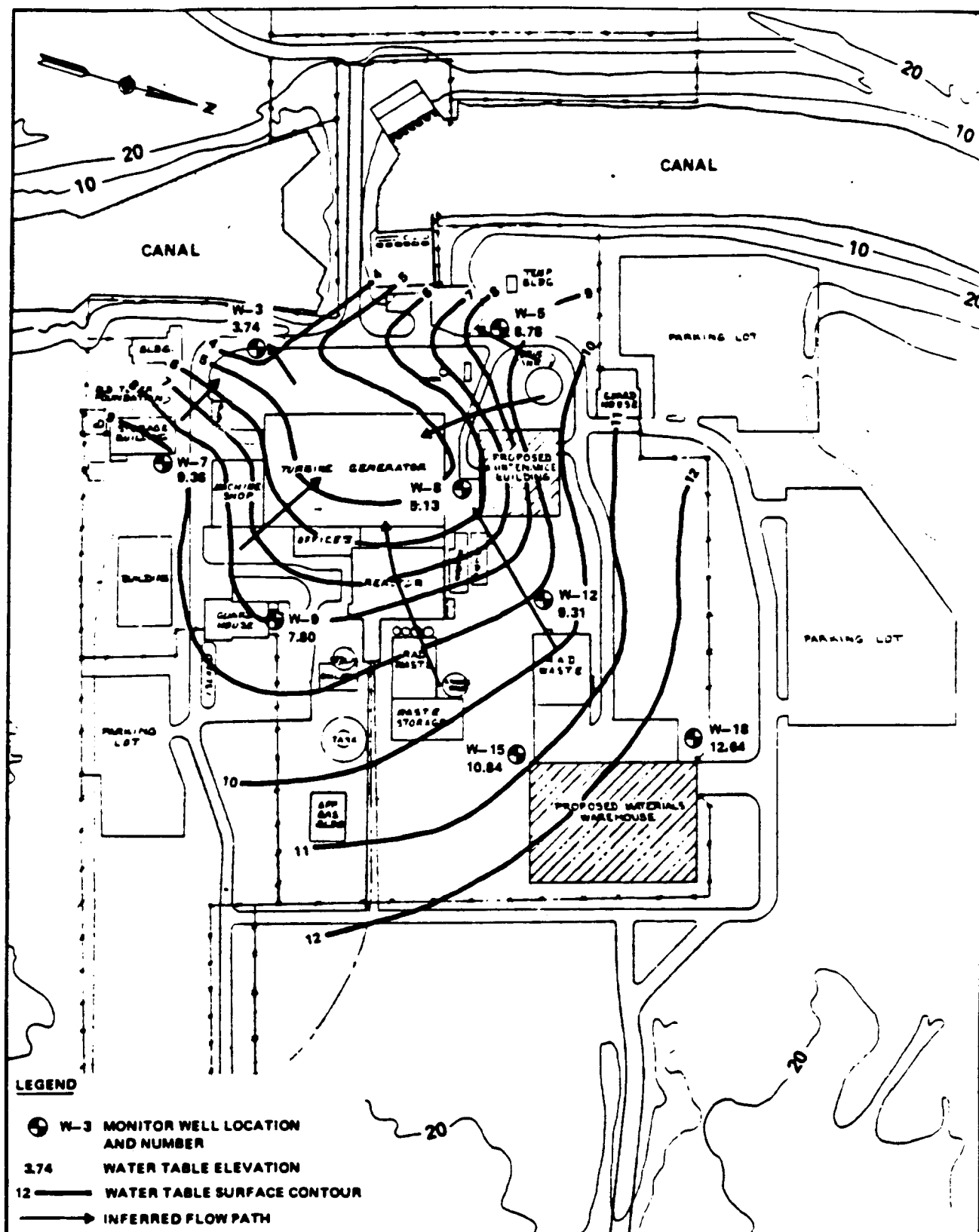
**Oyster Creek**

**Location of Public Wells**

**Update - 5**

**12/90**

**Fig. 2.4-11**



**GPU Nuclear**

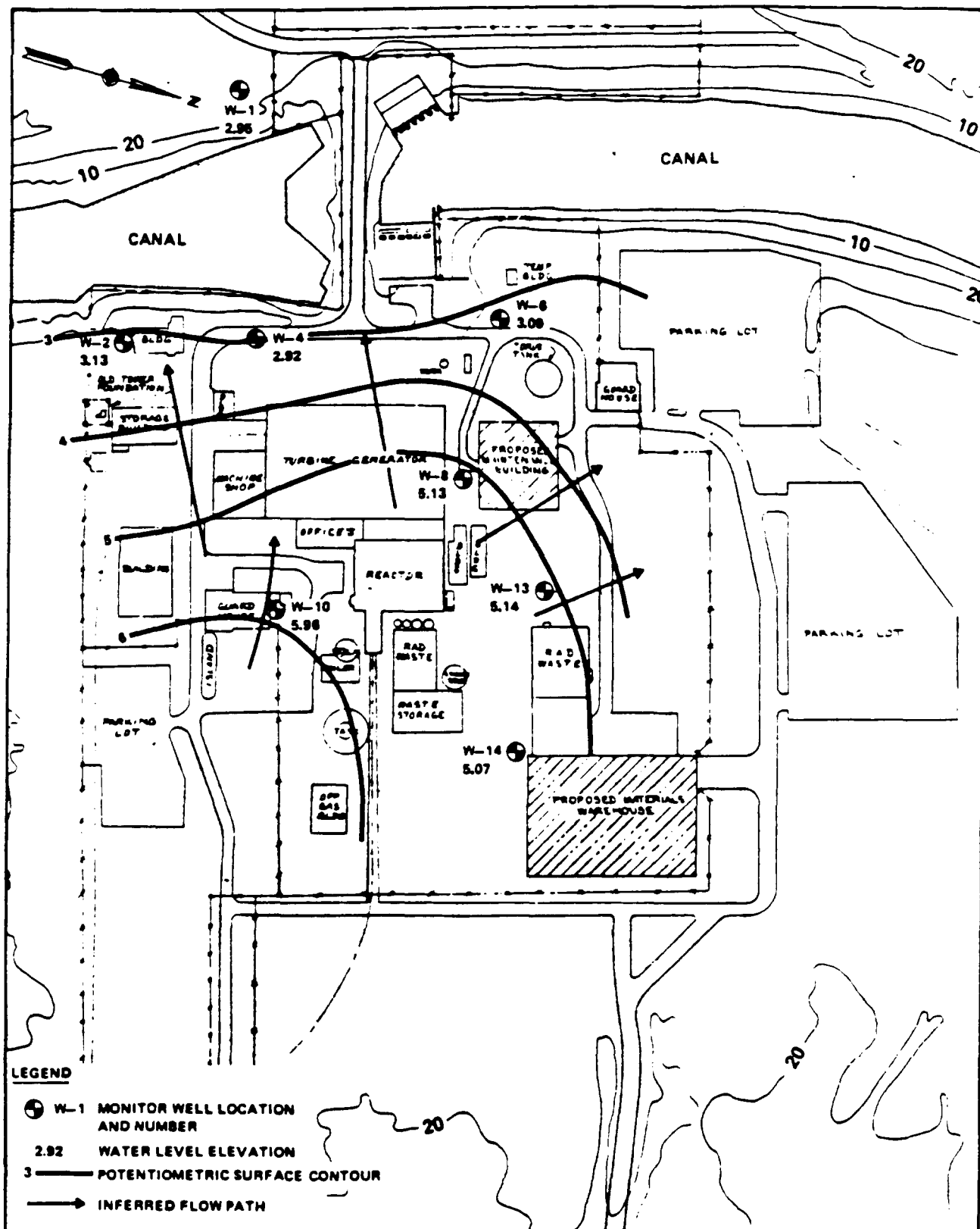
Update - 5

Oyster Creek

12/90

Water Table Surface  
(Ft. Above Sea Level 12/20/83)  
Cape May Formation

Fig. 2.4-12A



**GPU Nuclear**

Update - 5

Oyster Creek

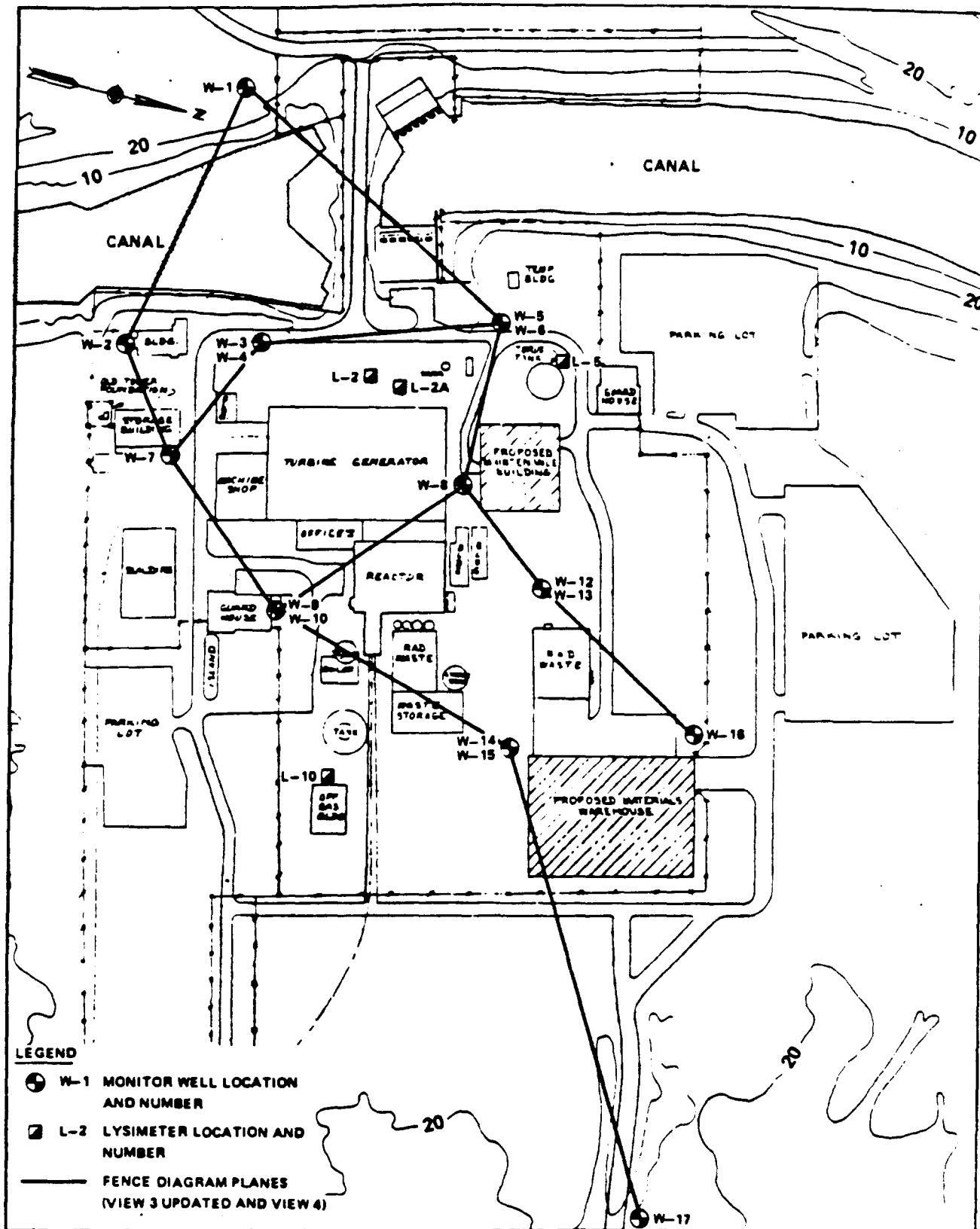
12/90

Potentiometric Surface  
(Ft. Above Sea Level 12/20/83)  
Cohansey Formation

Fig. 2.4-12B







**GPU Nuclear**

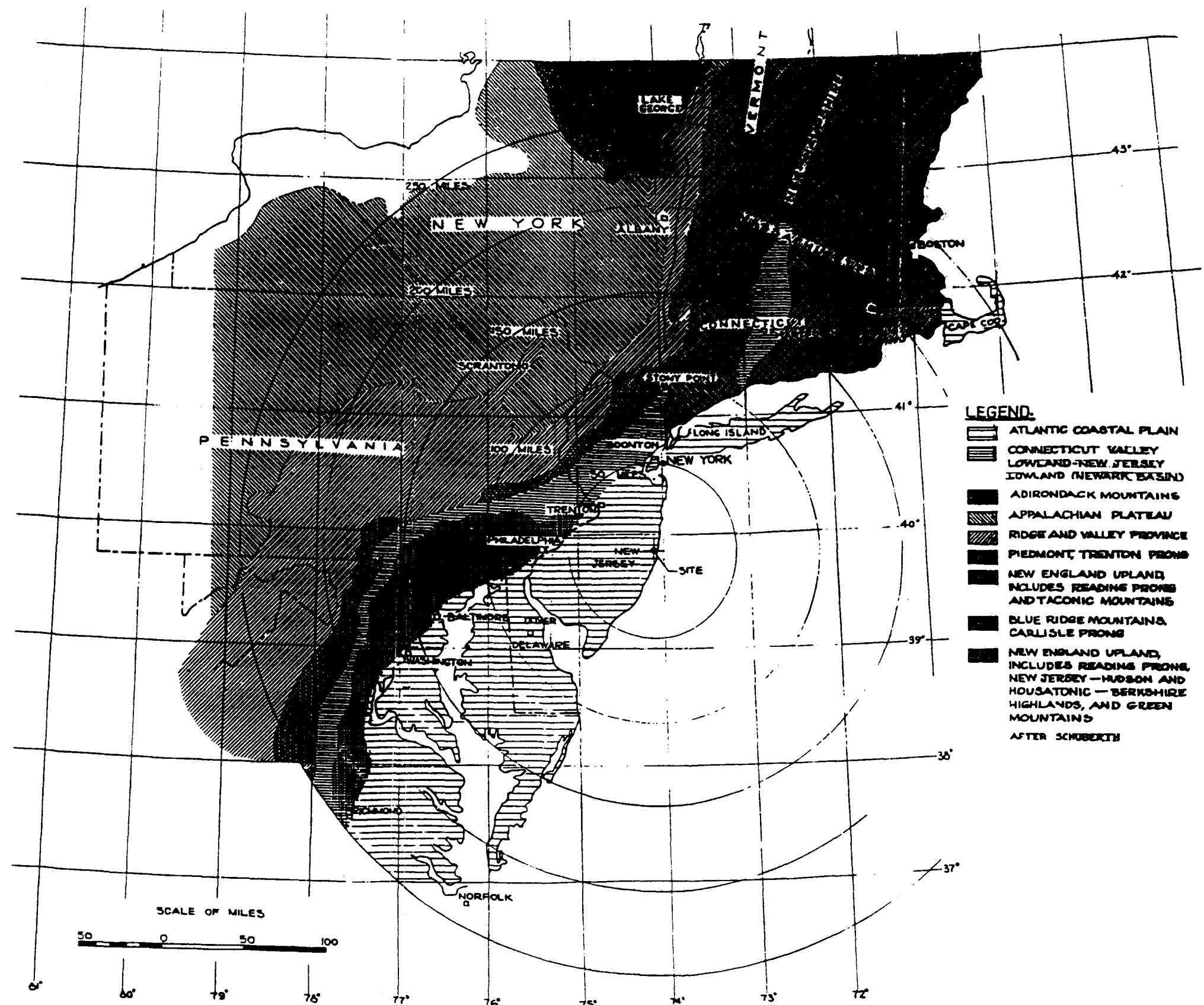
**Oyster Creek**

**Location of Monitor Wells and Lysimeters**

**Update - 5**

**12/90**

**Fig. 2.4-14**



**GPU Nuclear**

Oyster Creek

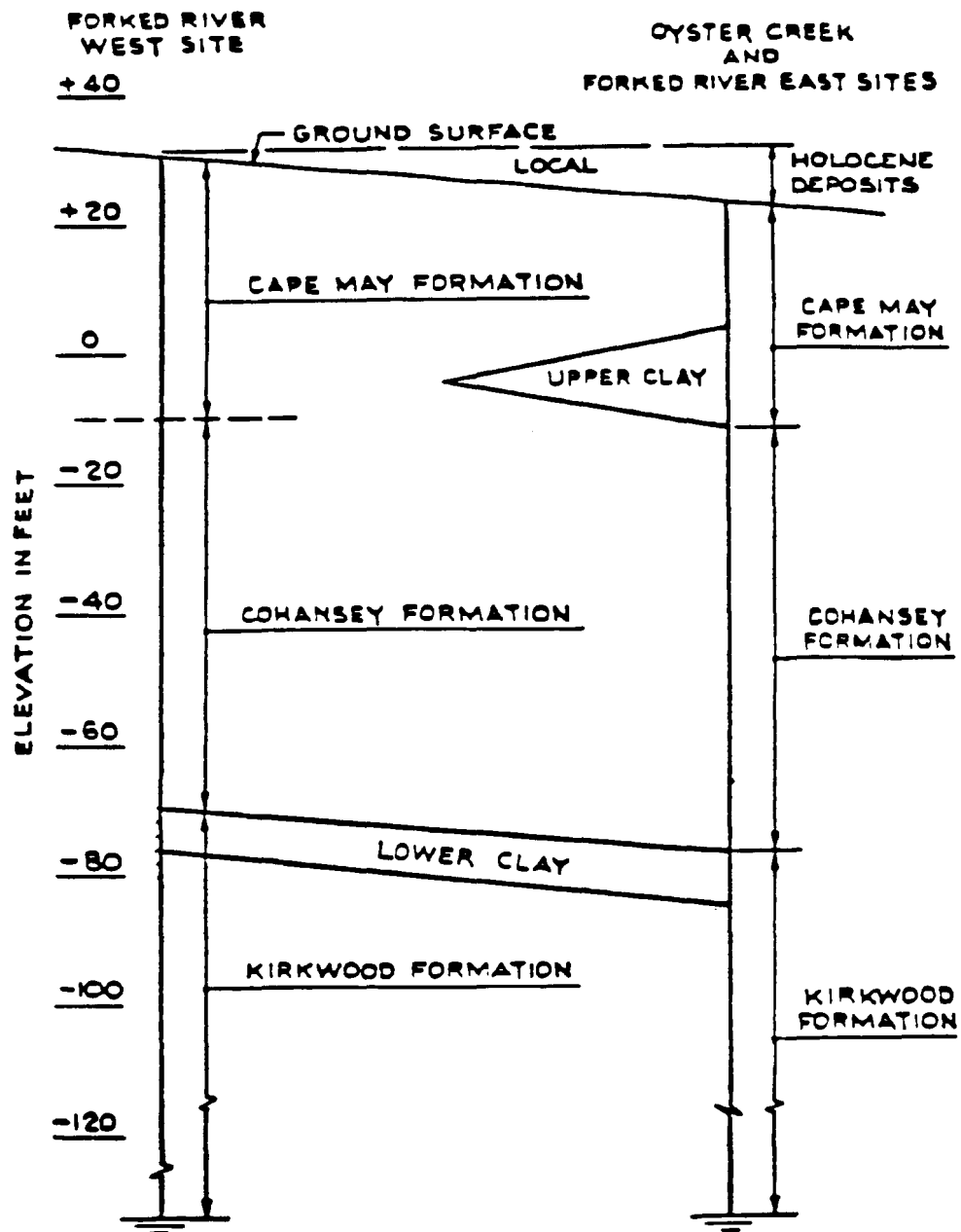
Geology

Update - 5

12/90

Fig. 2.5-1





**GPU Nuclear**

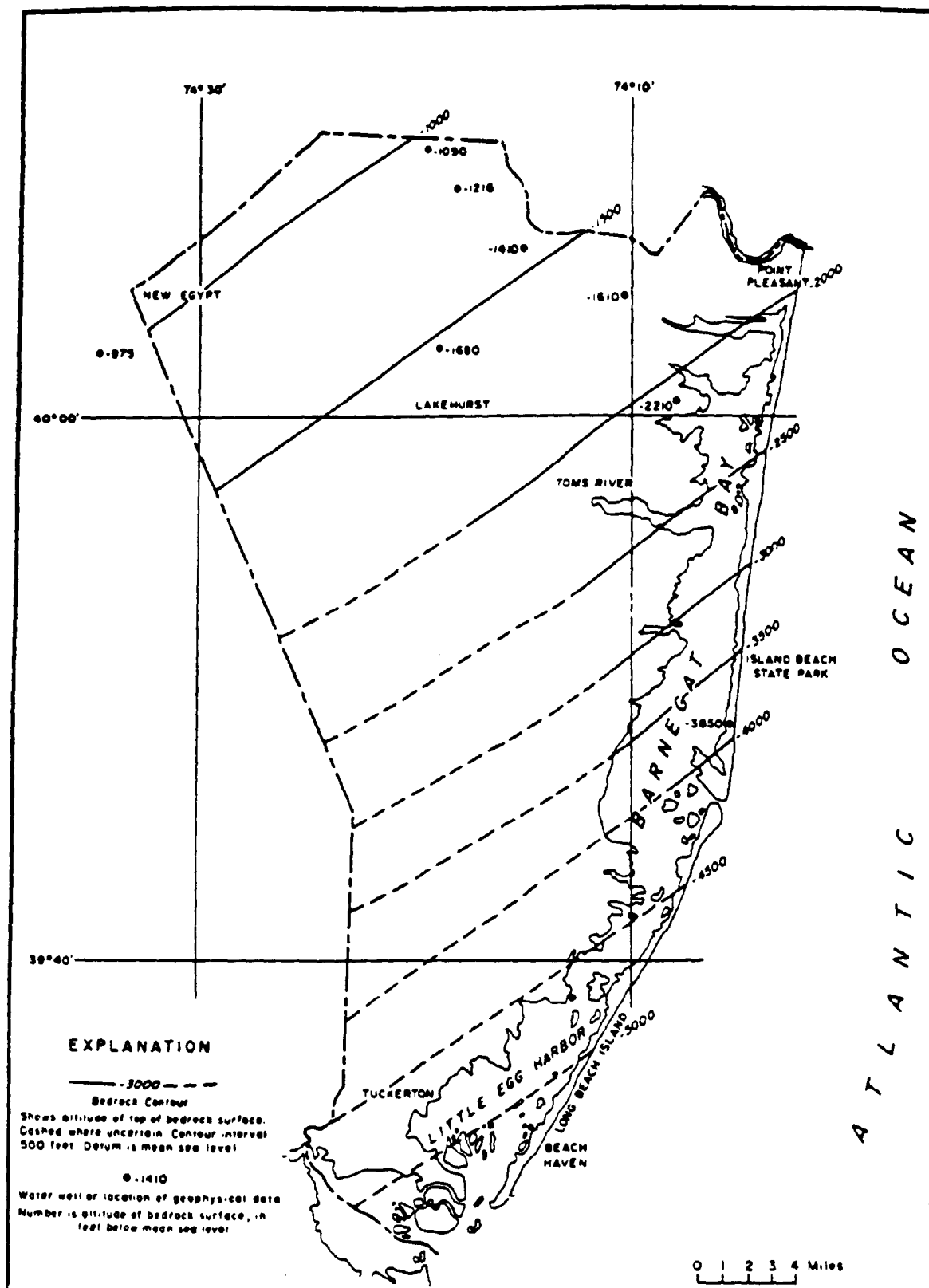
Update - 5

Oyster Creek

12/90

Boundaries of Geological Formation

Fig. 2.5-3



**GP Nuclear**

Update - 5

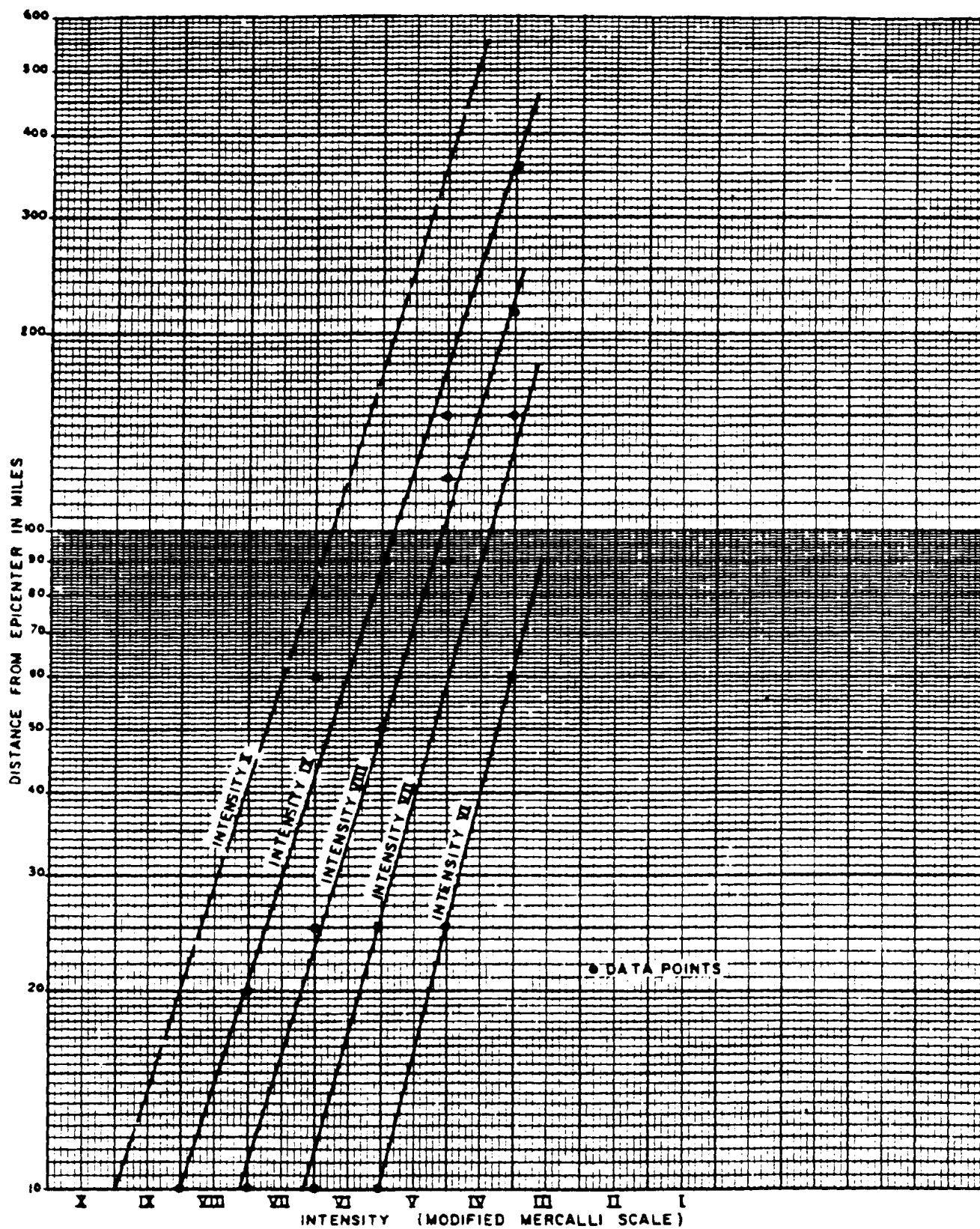
Oyster Creek

12/90

Configuration of the Pre-Cretaceous  
Bedrock Surface

Fig. 2.5-4





**GPU Nuclear**

Update - 5

Oyster Creek

12/90

Earthquake Intensities

Fig. 2.5-6