

#### SITE CHARACTERISTICS CHAPTER 2 FIGURES

Revision: 26

Appendix: 2

Page: i of iv

## **LIST OF FIGURES**

#### **F**IGURE

NUMBER	TITLE
FIGURE 2-1	GENERAL SITE LOCATION MAP
FIGURE 2-2	SITE PLAN
FIGURE 2-3	SITE MAP
FIGURE 2-4	AERIAL PHOTOGRAPH OF SITE (1981)
FIGURE 2-5	GENERAL SITE TOPOGRAPHY
FIGURE 2-6A	EVACUATION ZONES (10 MILE EPZ)
FIGURE 2-6B	PERMANENT RESIDENT POPULATION BY SECTOR
FIGURE 2-7	LOCATION OF FARMS WITHIN 10 MILES OF THE SITE
FIGURE 2-8	LOCAL SITE TOPOGRAPHY
FIGURE 2-9	VERTICAL PROFILE AT THE EXTREME MILE WIND
FIGURE 2-10	RECURRENCE PERIOD OF FASTEST 1 MINUTE EXTREME WIND FOR SITE
FIGURE 2-11	WILMINGTON, N.C. WEATHER SERVICE WIND ROSE
FIGURE 2-12	WILMINGTON, N.C. WEATHER SERVICE SEASONAL WIND ROSE
FIGURE 2-13	BSEP On-Site Lower Level Wind Rose
FIGURE 2-14	350 FOOT WIND ROSE
FIGURE 2-15	44 FOOT WIND ROSE
FIGURE 2-16	Brunswick Tower 350 Foot Cumulative Probability of X/Q Values From Ground Release
FIGURE 2-17	Brunswick Tower 44 Foot Cumulative Probability of X/Q Values From Ground Release



#### SITE CHARACTERISTICS CHAPTER 2 FIGURES

Revision: 26

Appendix: 2

Page: ii of iv

## **LIST OF FIGURES**

FIGURE 2-18	Cumulative Probability of Average X/Q Values for Stack Releases Based On 350 Foot Level Composite Year of Brunswick Data (Site Boundary)
FIGURE 2-19	CUMULATIVE PROBABILITY OF AVERAGE X/Q VALUES FOR STACK RELEASES BASED ON 350 FOOT LEVEL COMPOSITE YEAR OF BRUNSWICK DATA (LOW POPULATION DISTANCE)
FIGURE 2-20	Cumulative Probability of Average X/Q Values for Stack Releases Based On 44 Foot Level Composite Year of Brunswick Data (Site Boundary)
FIGURE 2-21	CUMULATIVE PROBABILITY OF AVERAGE X/Q VALUES FOR GROUND LEVEL RELEASES BASED ON 44 FOOT LEVEL COMPOSITE YEAR OF BRUNSWICK DATA (LOW POPULATION DISTANCE)
FIGURE 2-22	Cumulative Probability of Average X/Q Values (1970 $-$ 1971 Brunswick Site Data $-$ Stack Release)
FIGURE 2-23	CUMULATIVE PROBABILITY OF AVERAGE X/Q VALUES (1970 – 1971 BRUNSWICK SITE DATA – GROUND RELEASE)
FIGURE 2-24	STORM PATHS FOR HIGH AND LOW STORM TIDES
FIGURE 2-25	TIME HISTORY OF PMH AT THE OPEN COAST
FIGURE 2-26	STORM FETCHES FOR MAXIMUM AND MINIMUM WATER LEVELS
FIGURE 2-27	GENERAL ARRANGEMENT – INTAKE CANAL
FIGURE 2-28	GENERAL ARRANGEMENT – DISCHARGE CANAL
FIGURE 2-29	CIRCULATING WATER SYSTEM HYDRAULIC GRADIENT
FIGURE 2-30	ARTESIAN HEAD AND WATER SURFACE ALONG THE DISCHARGE CANAL ROUTE
FIGURE 2-31	LOCATION OF EXISTING WELLS WITHIN A TWO-MILE RADIUS OF PLANT SITE [HISTORICAL INFORMATION]
FIGURE 2-32	TECTONIC MAP - NORTH AND SOUTH CAROLINA
FIGURE 2-33	GEOLOGIC CROSS SECTION AT BRUNSWICK SITE (PART 1)



#### SITE CHARACTERISTICS CHAPTER 2 FIGURES

Revision: 26

Appendix: 2

Page: iii of iv

## **LIST OF FIGURES**

FIGURE 2-34	GEOLOGIC CROSS SECTION AT BRUNSWICK SITE (PART 2)
FIGURE 2-35	EARTHQUAKE INTENSITY – ACCELERATION RELATIONSHIPS
Figure 2-36	MODIFIED MERCALI INTENSITY SCALE APPROXIMATE RELATIONSHIP WITH MAGNITUDE, GROUND ACCELERATION AND ROSSI-FOREL INTENSITY SCALE
FIGURE 2-37	COMPILATION OF EARTHQUAKES – VIRGINIA AND THE CAROLINAS
FIGURE 2-38	COMPILATION OF EARTHQUAKES — SOUTHEASTERN NORTH CAROLINA
FIGURE 2-39	ISOSEISMAL MAP – CHARLESTON EARTHQUAKE OF AUGUST 31, 1886
FIGURE 2-40	SEISMIC AMPLIFICATION CURVES – 5 PERCENT DAMPING
FIGURE 2-41	SEISMIC AMPLIFICATION CURVES – 10 PERCENT DAMPING
FIGURE 2-42	GENERAL PLANT EXCAVATION – PLAN
FIGURE 2-43	GENERAL PLANT BACKFILL – PLAN - PHASE 1
FIGURE 2-44	GENERAL PLANT EXCAVATION SECTIONS (PART 1 OF 2)
FIGURE 2-45	GENERAL PLANT EXCAVATION SECTIONS (PART 2 OF 2)
Figure 2-46	TEST DATA FOR ALL STANDARD PENETRATION TESTS PERFORMED AT BSEP SITE AS PART OF QUALITY ASSURANCE PROGRAM
FIGURE 2-47	PERMEABILITY TEST IN IN-SITU SOIL
FIGURE 2-48	PERMEABILITY TEST IN SOIL
FIGURE 2-49	SOIL PRESSURE DIAGRAMS FOR FOUNDATION DESIGN — CASES I AND II
FIGURE 2-50	SOIL PRESSURE DIAGRAMS FOR FOUNDATION DESIGN - CASE III
FIGURE 2-51	SOIL PRESSURE DIAGRAMS FOR FOUNDATION DESIGN — CASES IV AND V
FIGURE 2-52	SETTLEMENT OF UNIT 1 REACTOR MAT
FIGURE 2-53	SETTLEMENT OF UNIT 2 REACTOR MAT
FIGURE 2-54	SETTLEMENT OF UNIT 1 AND UNIT 2 TURBINE PADS



#### SITE CHARACTERISTICS CHAPTER 2 FIGURES

Revision: 26

Appendix: 2

Page: iv of iv

### **LIST OF FIGURES**

FIGURE 2-55	SETTLEMENT OF UNIT 2 TURBINE BUILDING
FIGURE 2-56	SETTLEMENT OF UNIT 1 AND UNIT 2 TURBINE BUILDINGS
FIGURE 2-57	SETTLEMENT OF UNIT 1 TURBINE BUILDING
FIGURE 2-58	SETTLEMENT OF PIPING TUNNEL
FIGURE 2-59	SETTLEMENT OF CONTROL BUILDING
FIGURE 2-60	SETTLEMENT OF RADWASTE BUILDING AND STACK
FIGURE 2-61	SETTLEMENT OF CIRCULATING WATER INTAKE
FIGURE 2-62	SETTLEMENT OF SERVICE WATER INTAKE
FIGURE 2-63	SETTLEMENT OF DIESEL GENERATOR BUILDING
FIGURE 2-64	INTAKE CANAL – BORING LOG C15A
FIGURE 2-65	DISCHARGE CANAL – BORING LOG C42A

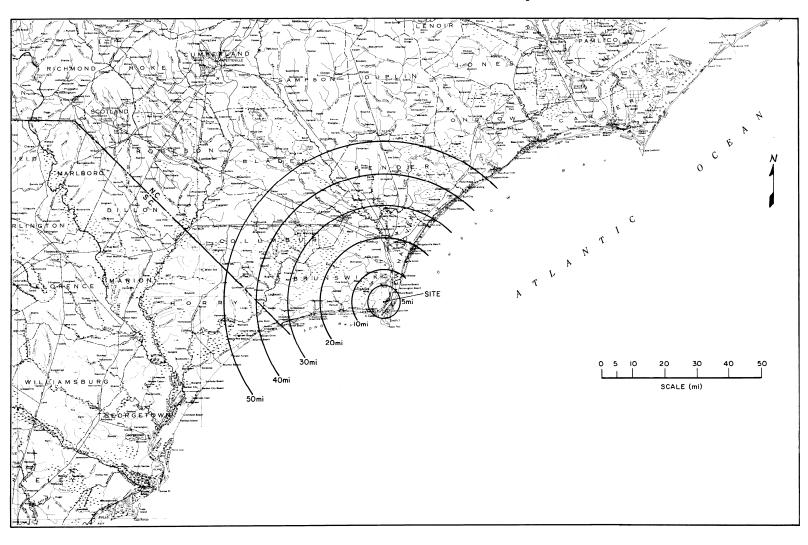


SITE CHARACTERISTICS CHAPTER 2 FIGURES Revision: Figure:

Figure: 2-1 Page: 1 of 1

24

## **General Site Location Map**



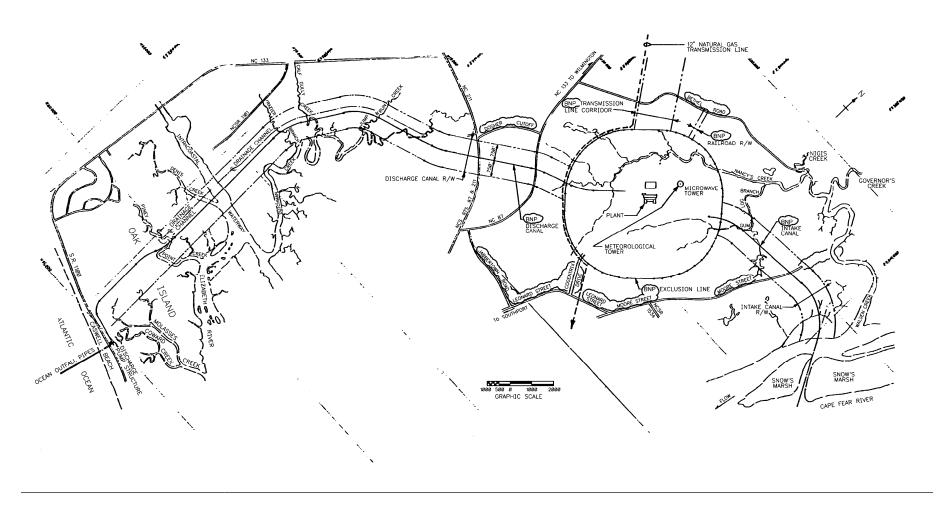


SITE CHARACTERISTICS CHAPTER 2 FIGURES Revision: 25

Figure: 2-2

Page: 1 of 1

## Site Plan



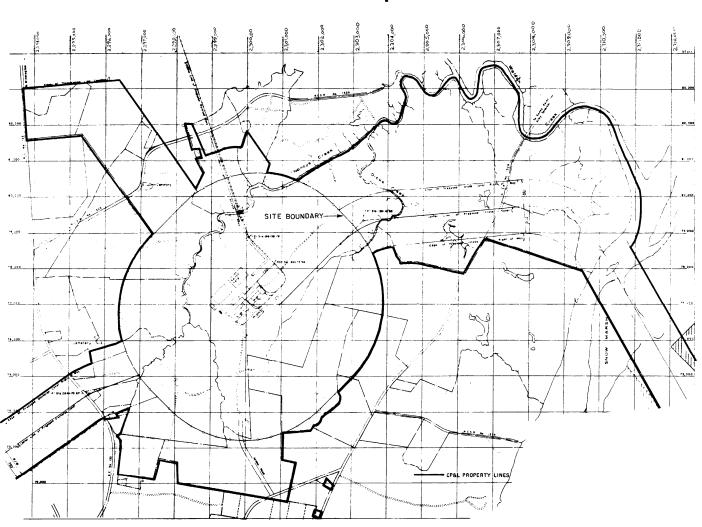


SITE CHARACTERISTICS CHAPTER 2 FIGURES Revision: 24 Figure: 2-3

1 of 1

Page:

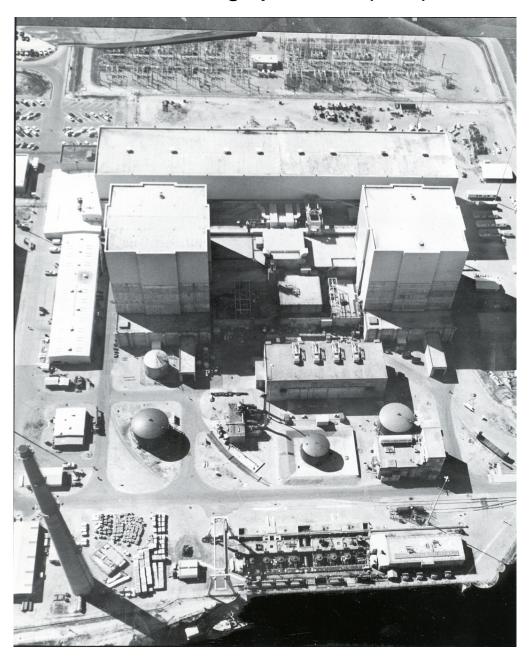
## Site Map





SITE CHARACTERISTICS CHAPTER 2 FIGURES Revision: 24
Figure: 2-4
Page: 1 of 1

## **Aerial Photograph Of Site (1981)**

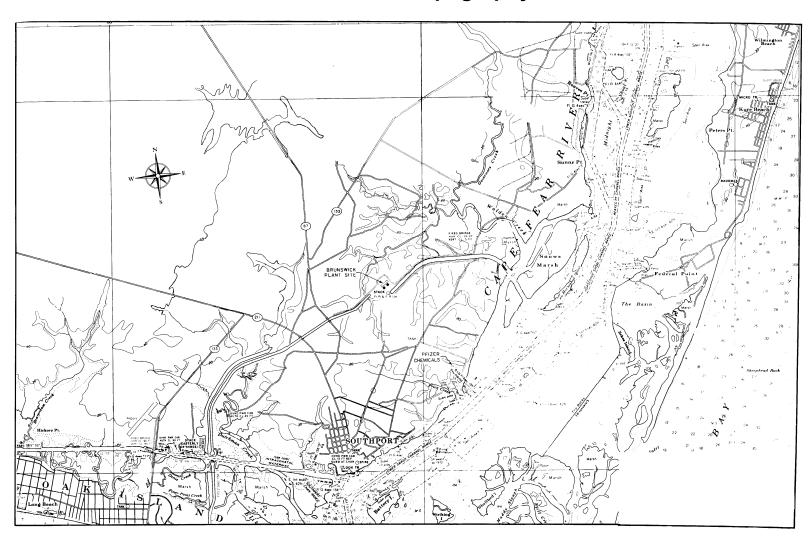




SITE CHARACTERISTICS CHAPTER 2 FIGURES Revision: 24 Figure: 2-5

Page: 1 of 1

## **General Site Topography**

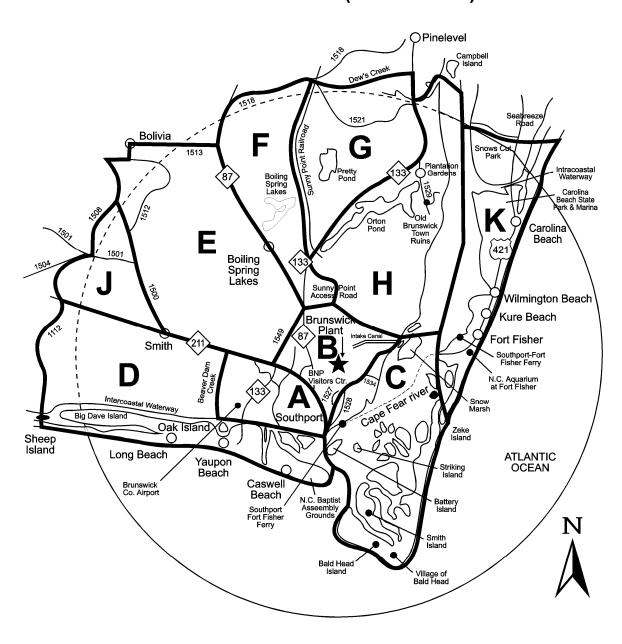




SITE CHARACTERISTICS CHAPTER 2 FIGURES Revision: 24 Figure: 2-6

Figure: 2-6 Page: 1 of 1

## **Evacuation Zones (10 Mile EPZ)**



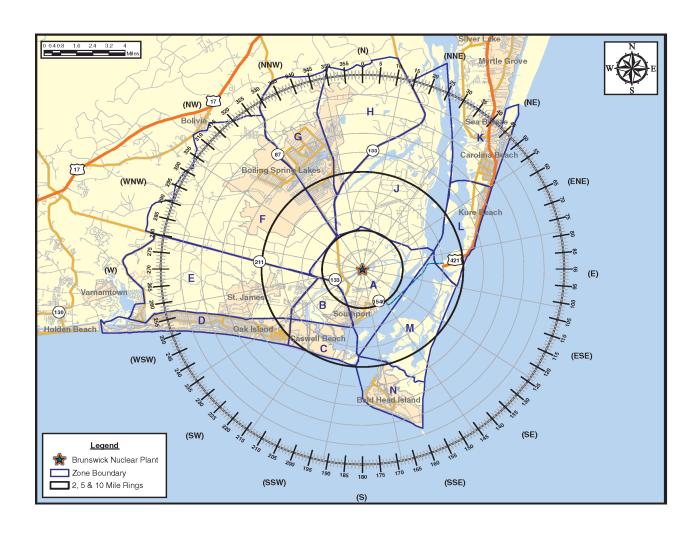
SITE CHARACTERISTICS CHAPTER 2 FIGURES Revision: Figure:

2-6A

24

Page: 1 of 1

## **Evacuation Zones (10 Mile EPZ)**

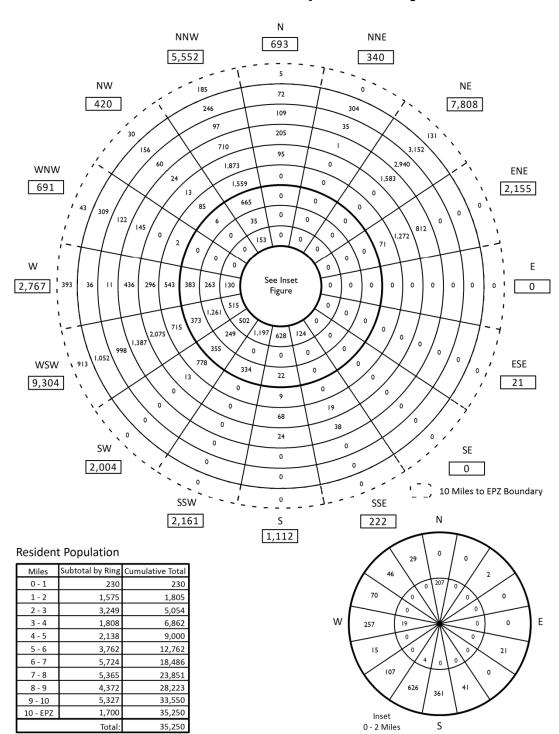




SITE CHARACTERISTICS CHAPTER 2 FIGURES Revision: Figure: 24 2-6B

Page: 1 of 1

## **Permanent Resident Population by Sector**





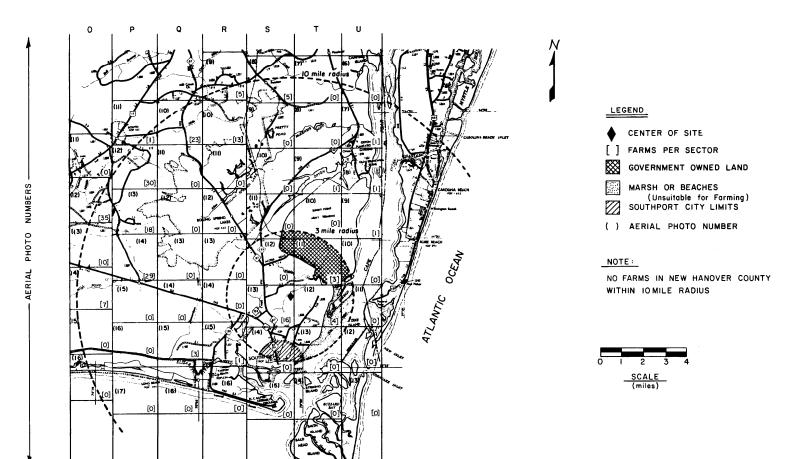
SITE CHARACTERISTICS CHAPTER 2 FIGURES Revision:

24 2-7

Figure: Page:

1 of 1

#### **Location of Farms Within 10 Miles of the Site**



AERIAL FLIGHT LINES -

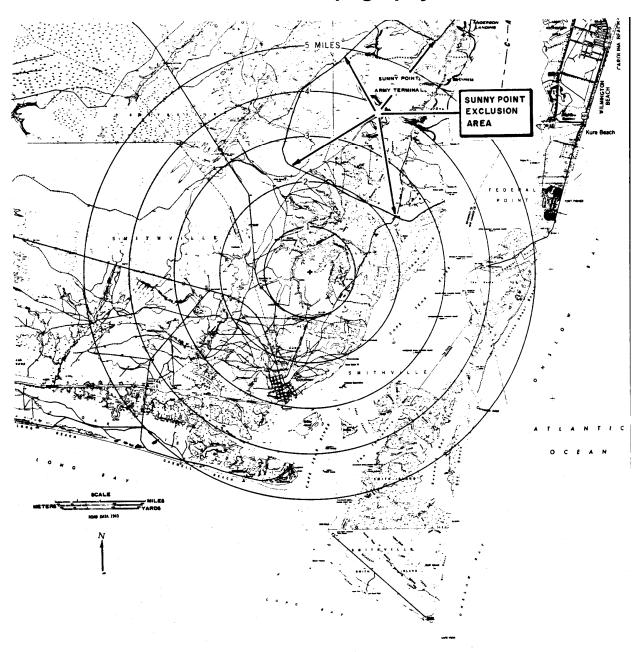


SITE CHARACTERISTICS CHAPTER 2 FIGURES Revision: Figure: 24 2-8

Page:

1 of 1

## **Local Site Topography**



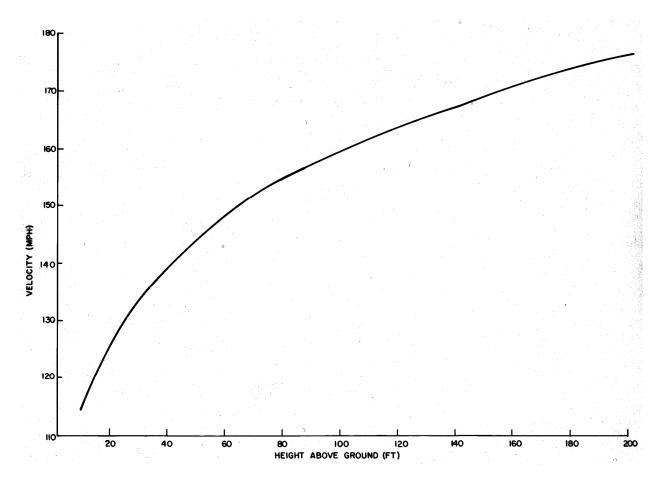
SITE CHARACTERISTICS CHAPTER 2 FIGURES Revision:

24 2-9

Figure: Page:

1 of 1

## **Vertical Profile At The Extreme Mile Wind**



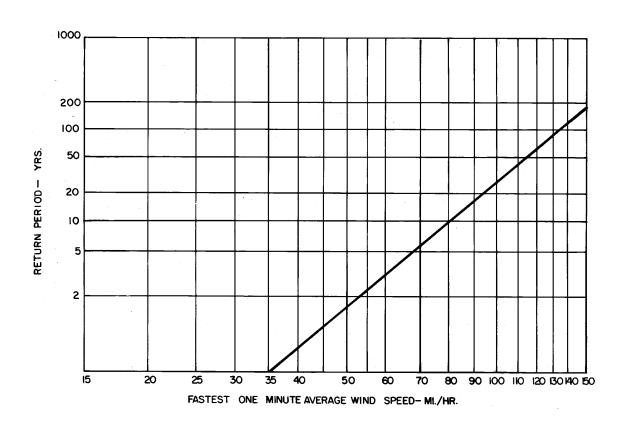
SITE CHARACTERISTICS CHAPTER 2 FIGURES Revision:

24 2-10

Figure: Page:

1 of 1

### Recurrence Period of Fastest 1 Minute Extreme Wind for Site



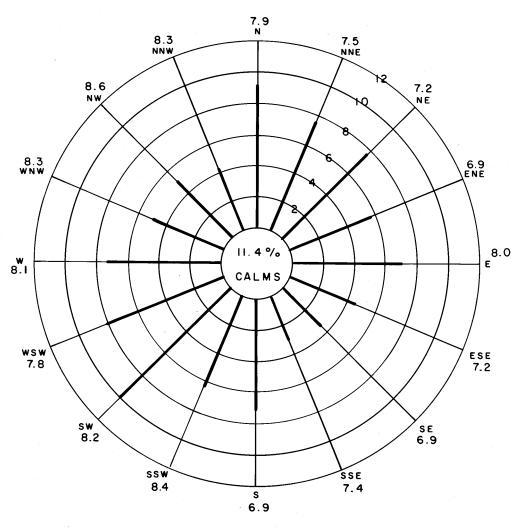
SITE CHARACTERISTICS CHAPTER 2 FIGURES Revision:

24 2-11

Figure: Page:

1 of 1

## Wilmington, N.C. Weather Service Wind Rose



ū = 6.9 MPH

T = ALL DIRECTION AVERAGE WIND SPEED

NOTE: DIRECTIONAL AVERAGE WIND SPEEDS (MPH)

ARE DISPLAYED RADIALLY

- WIND DIRECTION (%)



9.2

ws w 8.6

 $\overline{u} = 7.2$ 

sw\ 8.9

8.4

#### **UPDATED FSAR**

SITE CHARACTERISTICS **CHAPTER 2 FIGURES** 

Revision:

24 2-12

Figure: Page:

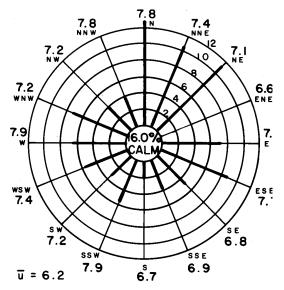
1 of 1

## Wilmington, N.C. Weather Service Seasonal Wind Rose





SPRING (MAR, APR, MAY)



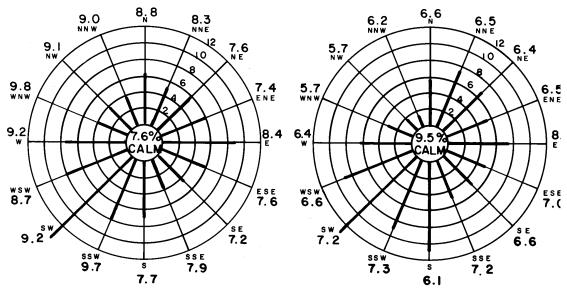
8<sup>.</sup>0

ss w 8.7



5E 7.2

55 E 7.7



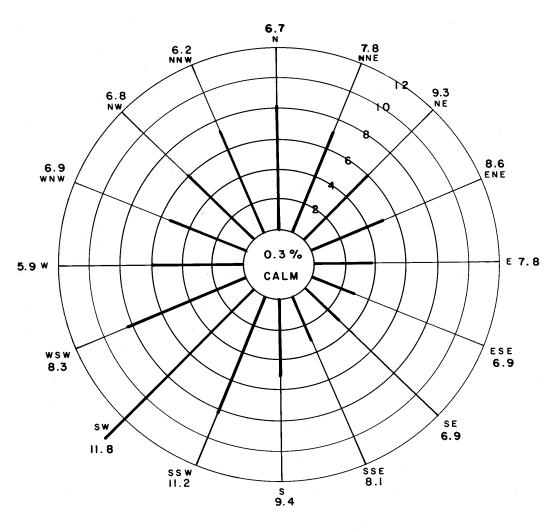


SITE CHARACTERISTICS CHAPTER 2 FIGURES Revision: 24

Figure: 2-13

Page: 1 of 1

#### **BSEP On-Site Lower Level Wind Rose**



u = 8.5 MPH

u = ALL DIRECTION AVERAGE WIND SPEED

NOTE: DIRECTIONAL AVERAGE WIND SPEEDS (MPH)
ARE DISPLAYED RADIALLY

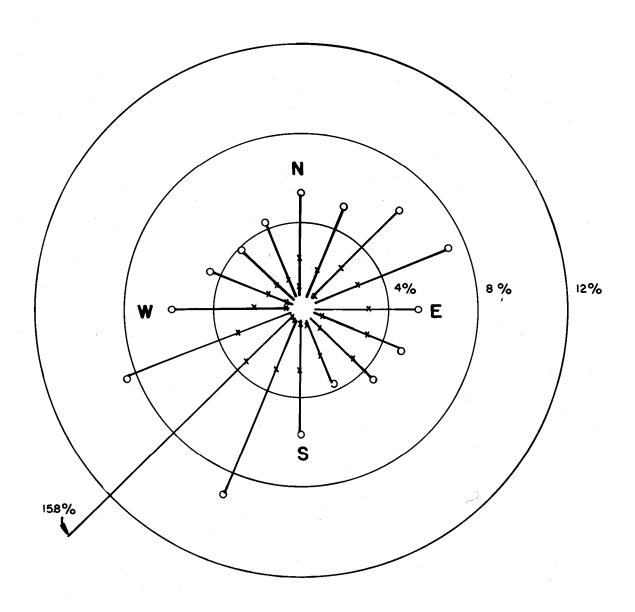
- WIND DIRECTION (%)



SITE CHARACTERISTICS CHAPTER 2 FIGURES Revision: Figure: 24 2-14

Page: 1 of 1

## 350 Foot Wind Rose



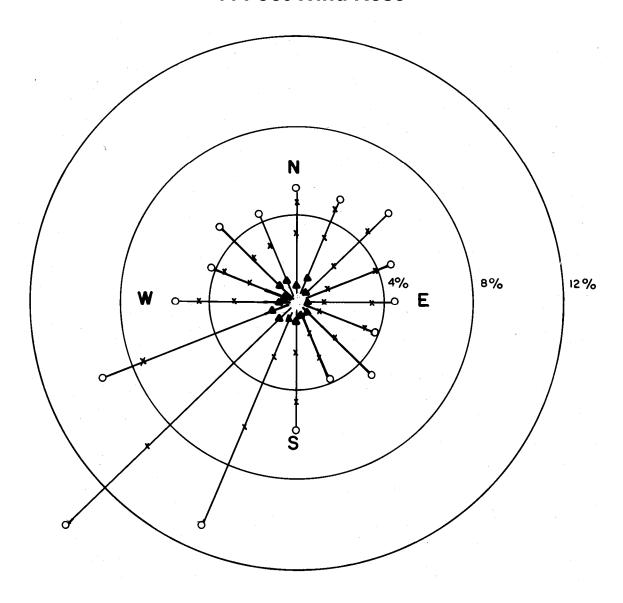


SITE CHARACTERISTICS CHAPTER 2 FIGURES Revision: Figure: 24 2-15

Page:

1 of 1

## **44 Foot Wind Rose**



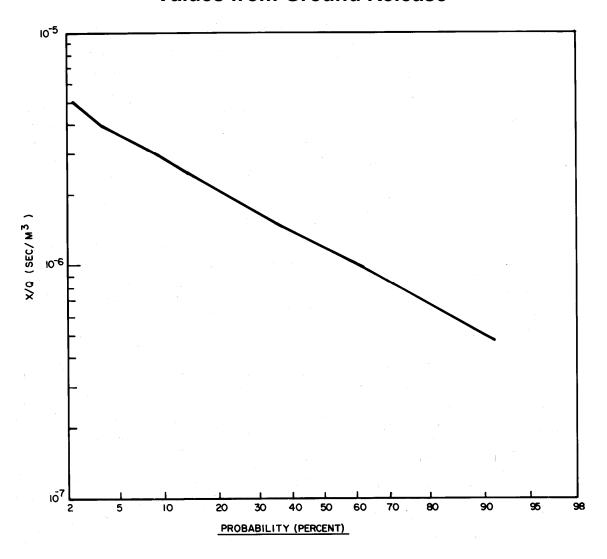
SITE CHARACTERISTICS CHAPTER 2 FIGURES Revision:

24 2-16

Figure: Page:

1 of 1

## Brunswick Tower 350 Foot Cumulative Probability of X/Q Values from Ground Release



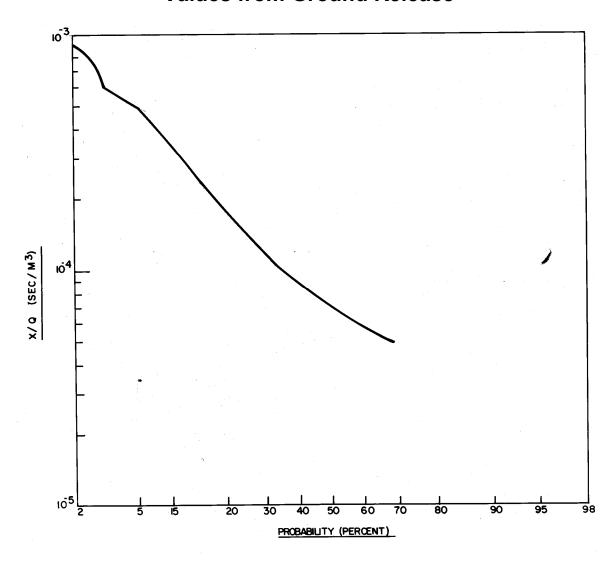
SITE CHARACTERISTICS CHAPTER 2 FIGURES Revision:

24 2-17

Figure: Page:

1 of 1

## Brunswick Tower 44 Foot Cumulative Probability of X/Q Values from Ground Release



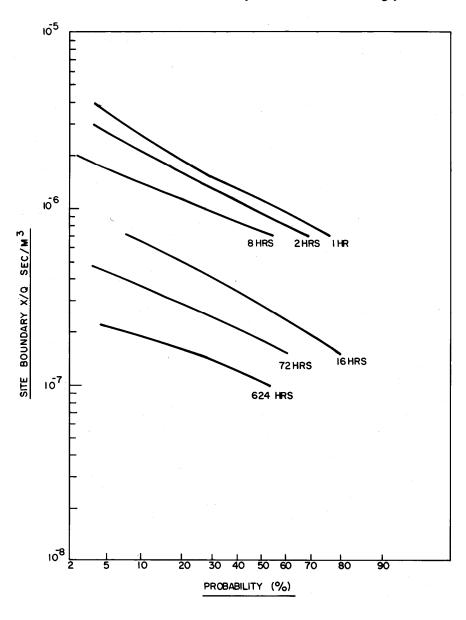
SITE CHARACTERISTICS CHAPTER 2 FIGURES Revision:

24 2-18

Figure: Page:

1 of 1

## Cumulative Probability of Average X/Q Values for Stack Releases Based on 350 Foot Level Composite Year of Brunswick Data (Site Boundary)



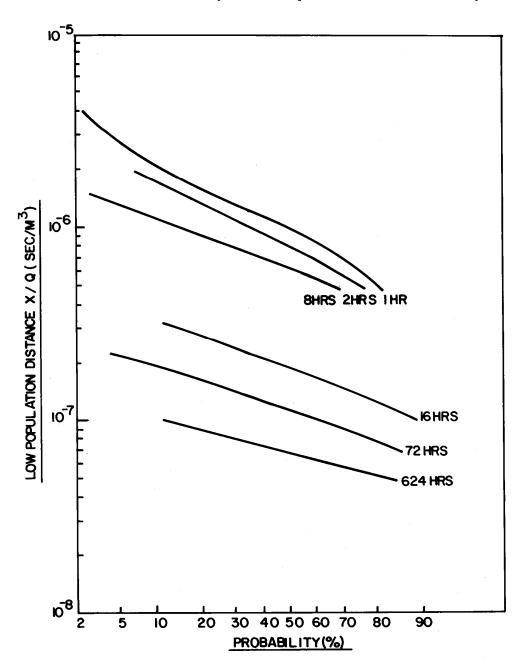
SITE CHARACTERISTICS CHAPTER 2 FIGURES Revision:

24 2-19

Figure: Page:

1 of 1

## Cumulative Probability of Average X/Q Values for Stack Releases Based on 350 Foot Level Composite Year of Brunswick Data (Low Population Distance)





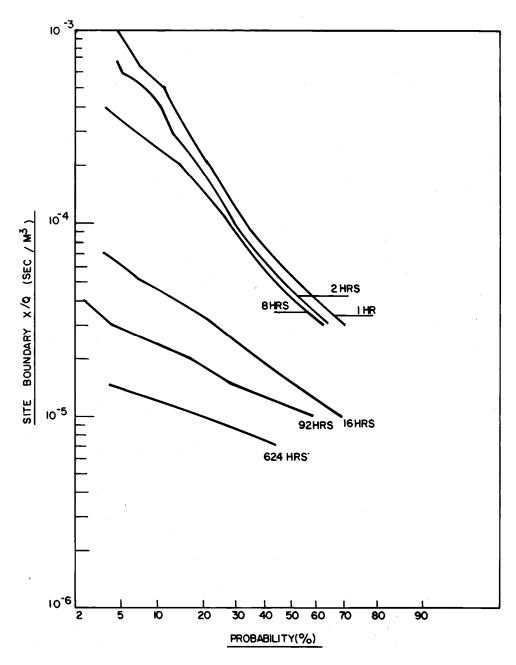
SITE CHARACTERISTICS CHAPTER 2 FIGURES Revision:

24 2-20

Figure: Page:

1 of 1

## Cumulative Probability of Average X/Q Values for Stack Releases Based on 44 Foot Level Composite Year of Brunswick Data (Site Boundary)



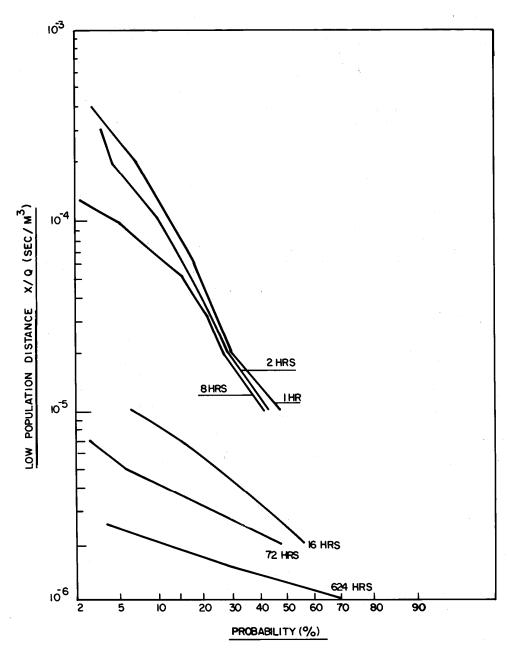


SITE CHARACTERISTICS CHAPTER 2 FIGURES Revision:

24

Figure: Page: 2-21 1 of 1

## Cumulative Probability of Average X/Q Values for Ground Level Releases Based on 44 Foot Level Composite Year of Brunswick Data (Low Population Distance)



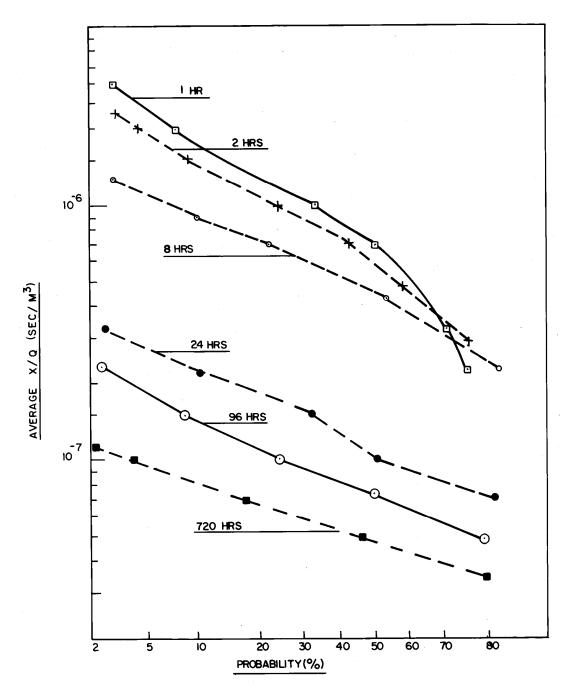
SITE CHARACTERISTICS CHAPTER 2 FIGURES Revision:

24 2-22

Figure: Page:

1 of 1

# Cumulative Probability of Average X/Q Values (1970 – 1971 Brunswick Site Data – Stack Release)



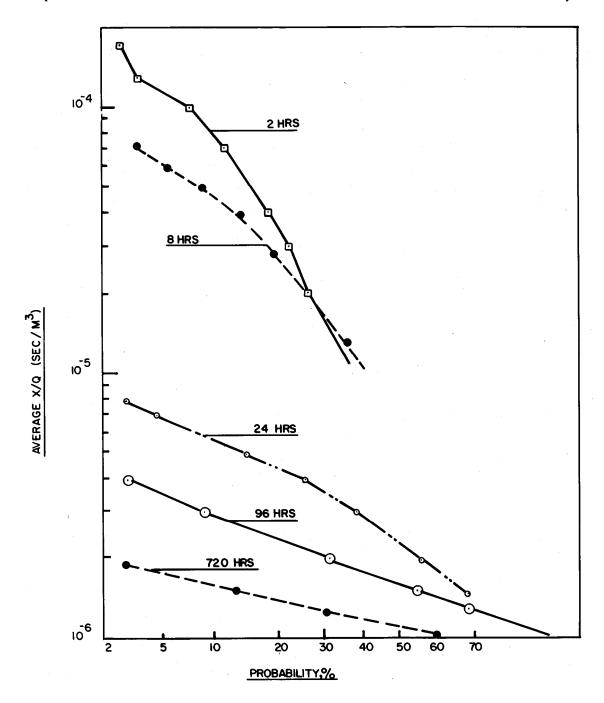
SITE CHARACTERISTICS CHAPTER 2 FIGURES Revision:

24 2-23

Figure: Page:

1 of 1

# Cumulative Probability of Average X/Q Values (1970 – 1971 Brunswick Site Data – Ground Release)



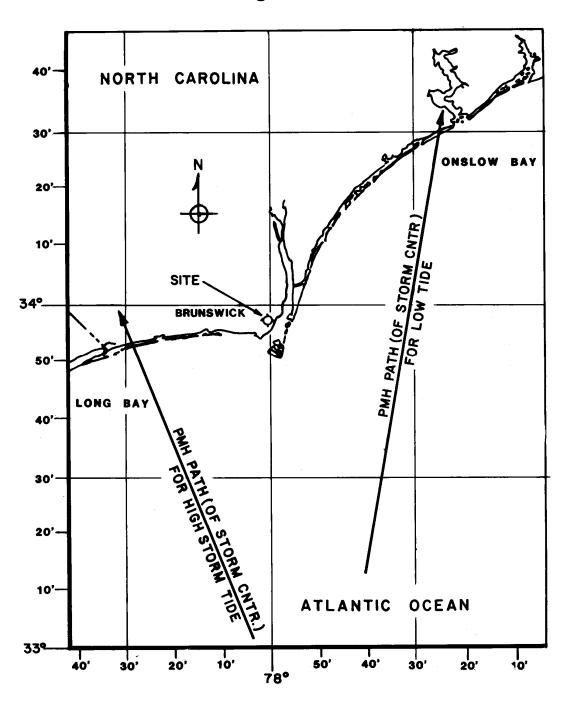
SITE CHARACTERISTICS CHAPTER 2 FIGURES Revision:

24 2-24

Figure: Page:

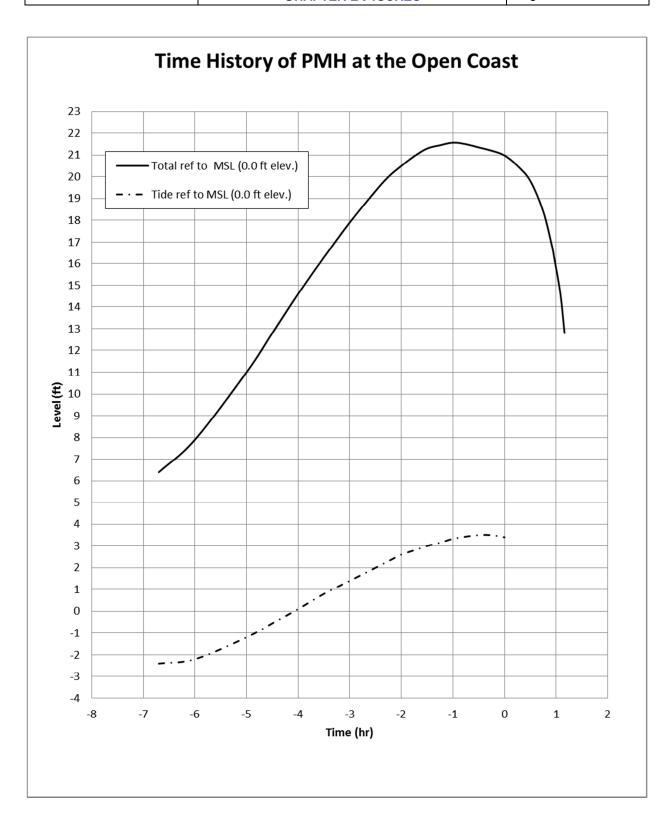
1 of 1

## **Storm Paths for High and Low Storm Tides**





SITE CHARACTERISTICS CHAPTER 2 FIGURES Revision: 24
Figure: 2-25
Page: 1 of 1



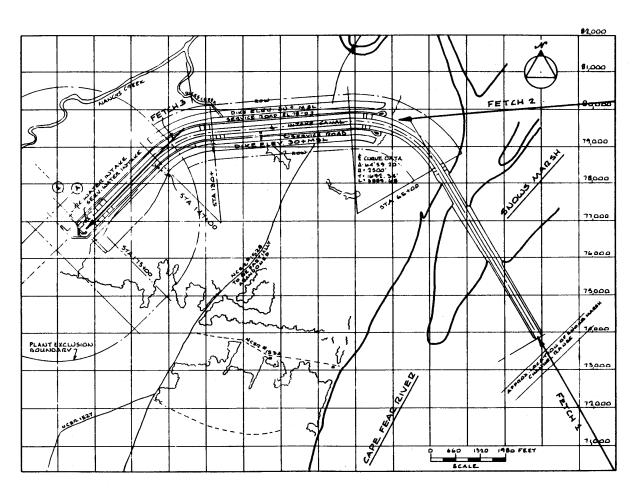


SITE CHARACTERISTICS CHAPTER 2 FIGURES Revision: 24

Figure: 2-26

Page: 1 of 1

#### **Storm Fetches for Maximum and Minimum Water Levels**





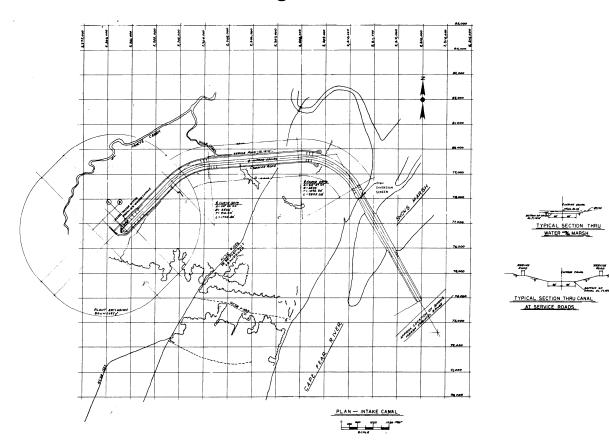
SITE CHARACTERISTICS CHAPTER 2 FIGURES Revision:

Figure: 2-27

24

Page: 1 of 1

## **General Arrangement – Intake Canal**





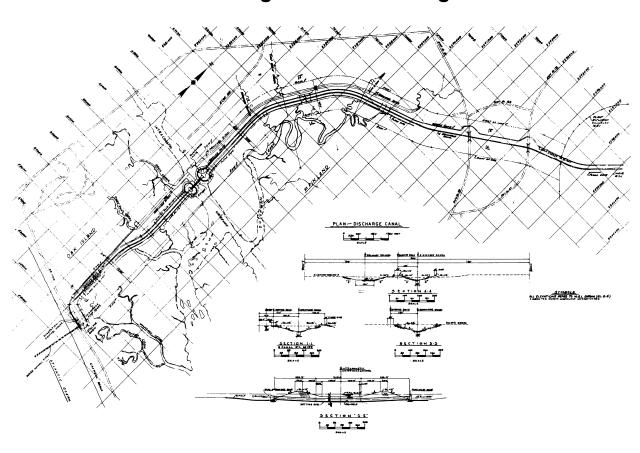
SITE CHARACTERISTICS CHAPTER 2 FIGURES Revision:

Figure: 2-28

Page: 1 of 1

24

## **General Arrangement – Discharge Canal**





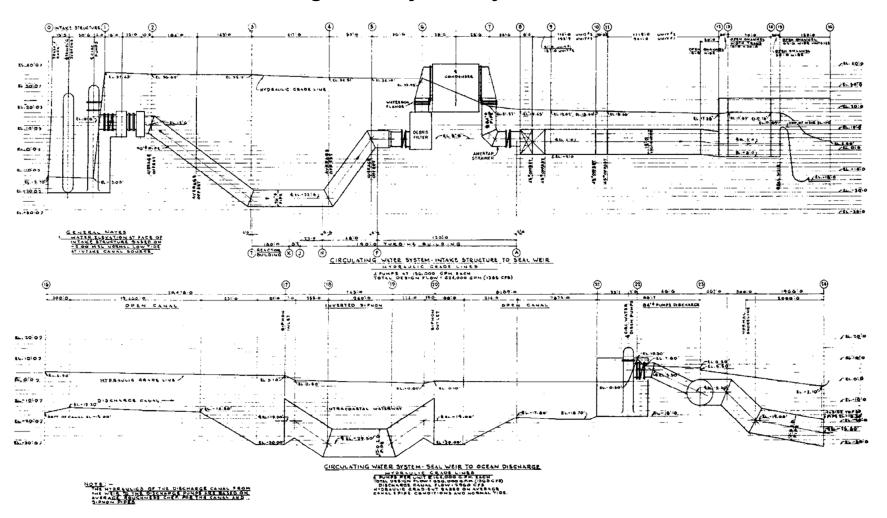
SITE CHARACTERISTICS CHAPTER 2 FIGURES Revision:

Figure: 2-29

Page: 1 of 1

24

## **Circulating Water System Hydraulic Gradient**





SITE CHARACTERISTICS CHAPTER 2 FIGURES Revision:

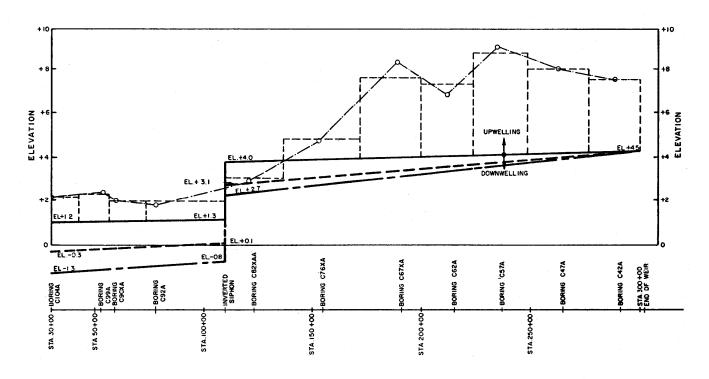
Figure:

2-30

24

Page: 1 of 1

## Artesian Head and Water Surface Along the Discharge Canal Route



NOTE:
THE CANAL WATER SURFACES WERE ADJUSTED TO ACCOUNT
FOR THE DIFFERENCE IN THE SPECIFIC GRAVITIES OF FRESH

FOR THE DIFFERENCE IN THE SPECIFIC GRAVITIES OF FRESH WATER AND SALT WATER IN COMPUTING THE QUANTITIES OF UPWELLING AND DOWNWELLING.

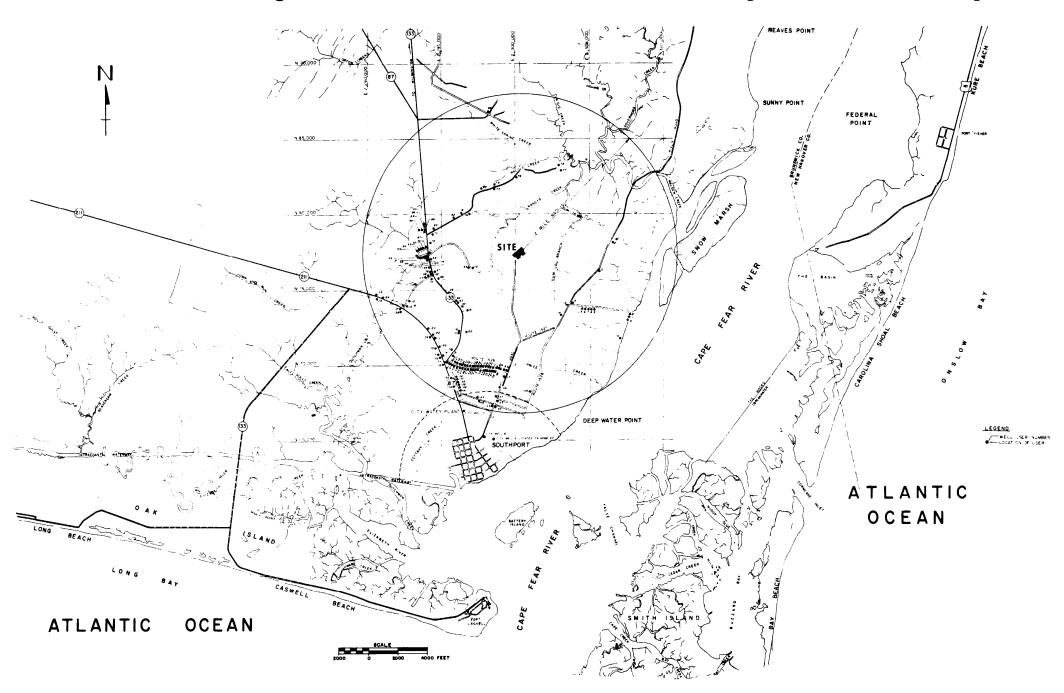
#### LEGEND



24

Page: 1 of 1

## Location of Existing Wells Within a Two-Mile Radius of Plant Site [Historical Information]





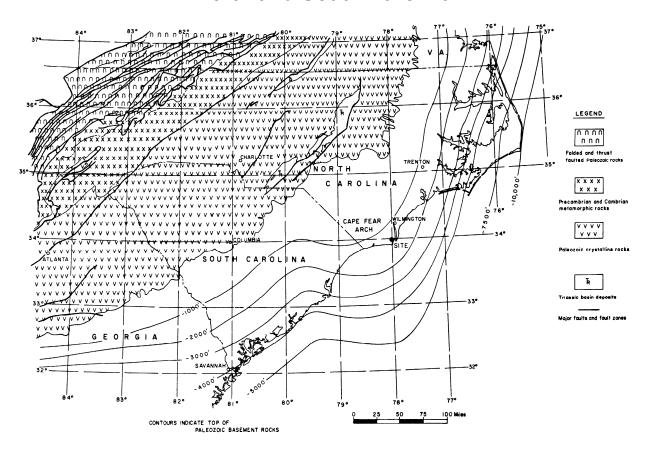
SITE CHARACTERISTICS CHAPTER 2 FIGURES Revision:

24

Figure: 2-32

Page: 1 of 1

## **Tectonic Map North and South Carolina**



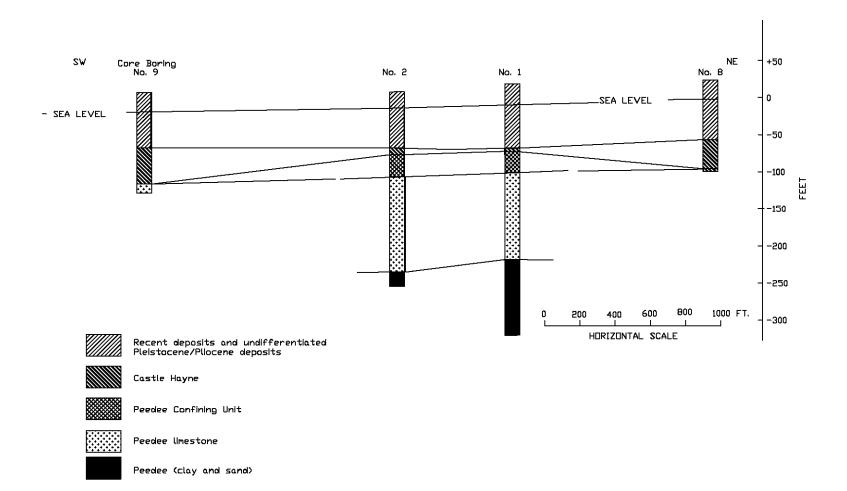


#### SITE CHARACTERISTICS CHAPTER 2 FIGURES

Revision: 24 Figure: 2-33

Page: 1 of 1

#### Geological Cross Section At Brunswick Site (Part 1)

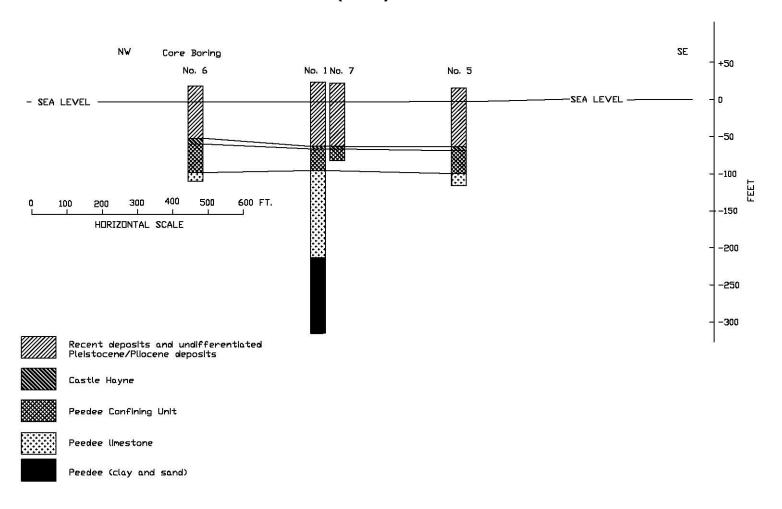




SITE CHARACTERISTICS CHAPTER 2 FIGURES Revision: 24 Figure: 2-34

Page: 1 of 1

#### Geological Cross Section At Brunswick Site (Part 2)





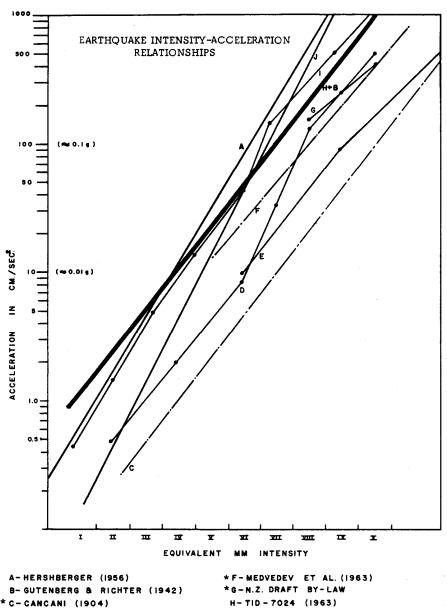
**SITE CHARACTERISTICS CHAPTER 2 FIGURES** 

Revision: 24

Figure: 2-35

Page: 1 of 1

## **Earthquake Intensity - Acceleration** Relationships



\*D-ISHIMOTO (1932)

\*E-SAVARENSKY & KIRNOS (1955)

\* [ - KAWASUMI (1951)

\*J-PETERSCHMITT (1951)

\*DATA FROM G.A. EIBY (1965)



SITE CHARACTERISTICS CHAPTER 2 FIGURES Revision:

24

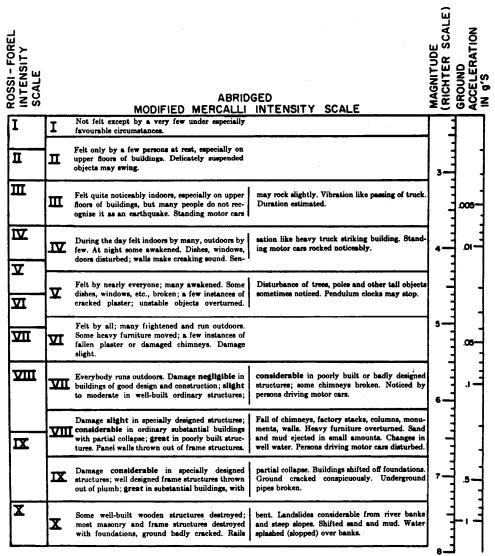
Figure:

2-36

Page:

1 of 1

# Modified Mercali Intensity Scale Approximate Relationship with Magnitude, Ground Acceleration and Rossi-Forel Intensity Scale



Modified Mercalli Intensity Scale and relationship with Rossi-Forel Scale after Wood and Neumann, 1931 (Modified Mercalli Intensities XI and XII not included).

Magnitude and acceleration values taken from Nuclear Reactors and Earthquakes, TID-7024, United States Atomic Energy Commission.

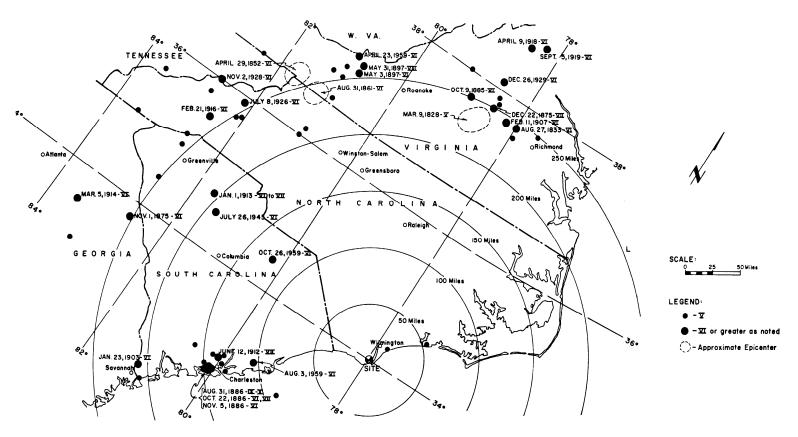


SITE CHARACTERISTICS CHAPTER 2 FIGURES Revision: 24

Figure: 2-37

Page: 1 of 1

## **Compilation of Earthquakes Virginia and the Carolinas**



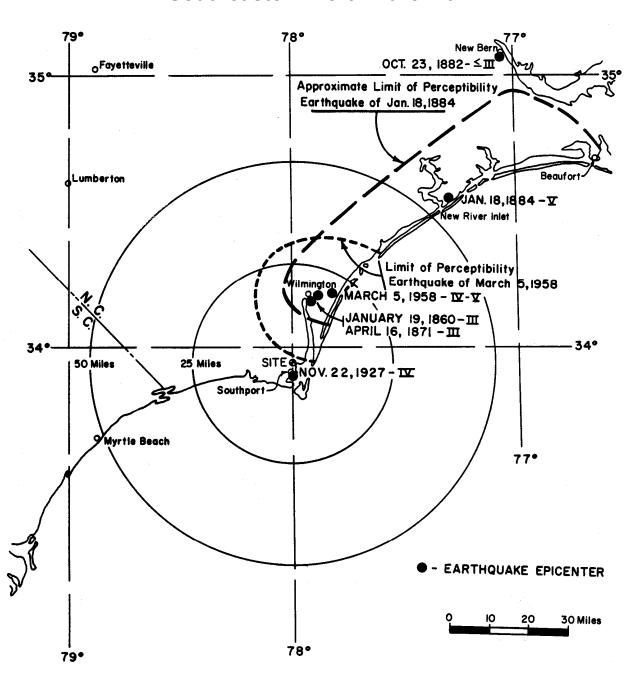


SITE CHARACTERISTICS CHAPTER 2 FIGURES Revision: Figure: 24 2-38

Page:

1 of 1

## **Compilation of Earthquakes Southeastern North Carolina**





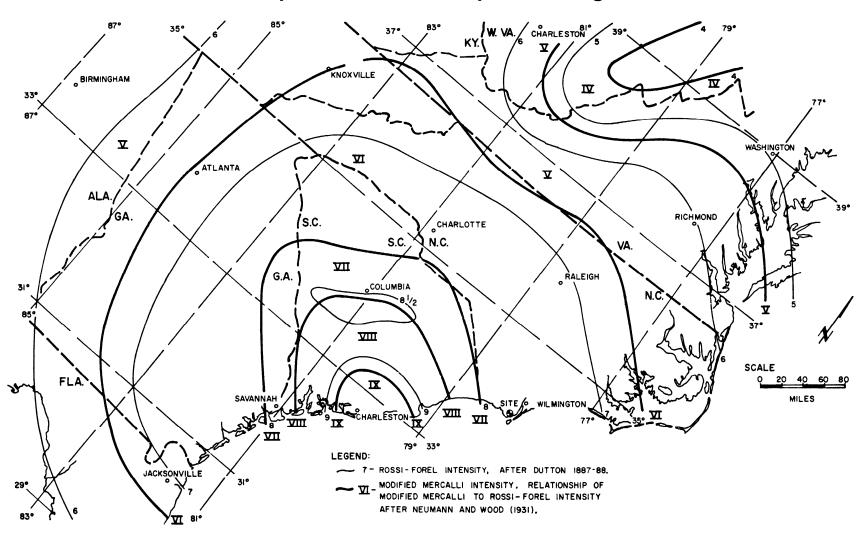
SITE CHARACTERISTICS CHAPTER 2 FIGURES Revision:

Figure: 2-39

24

Page: 1 of 1

## Isoseismal Map Charleston Earthquake of August 31, 1886



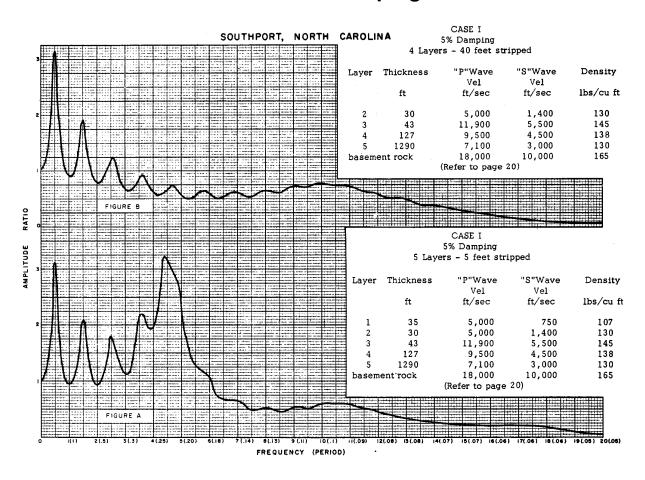


SITE CHARACTERISTICS CHAPTER 2 FIGURES Revision: 24

Figure: 2-40

Page: 1 of 1

## Seismic Amplification Curves 5 Percent Damping



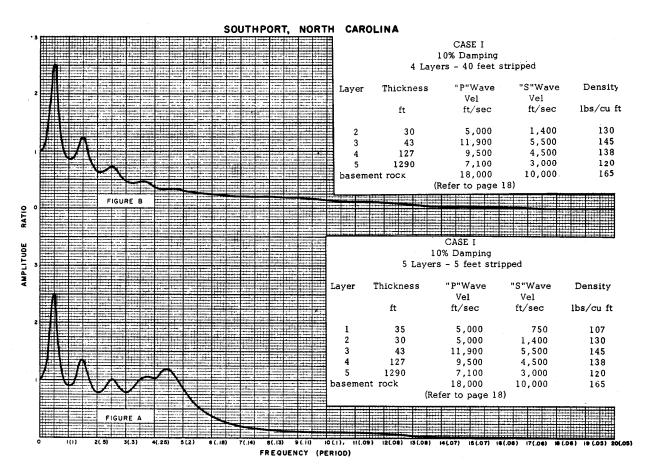


SITE CHARACTERISTICS CHAPTER 2 FIGURES Revision: 24

Figure: 2-41

Page: 1 of 1

## Seismic Amplification Curves 10 Percent Damping



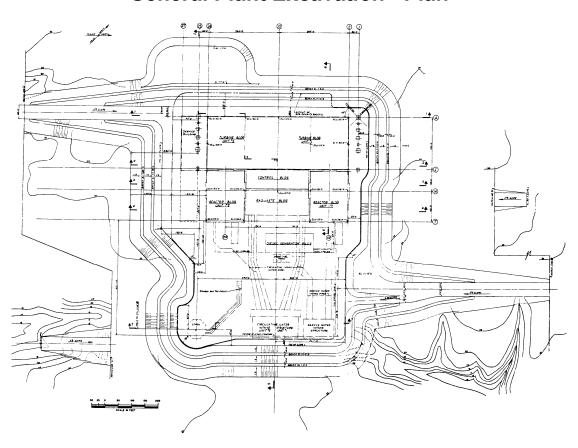


SITE CHARACTERISTICS CHAPTER 2 FIGURES Revision: 24

Figure: 2-42

Page: 1 of 1

### **General Plant Excavation - Plan**



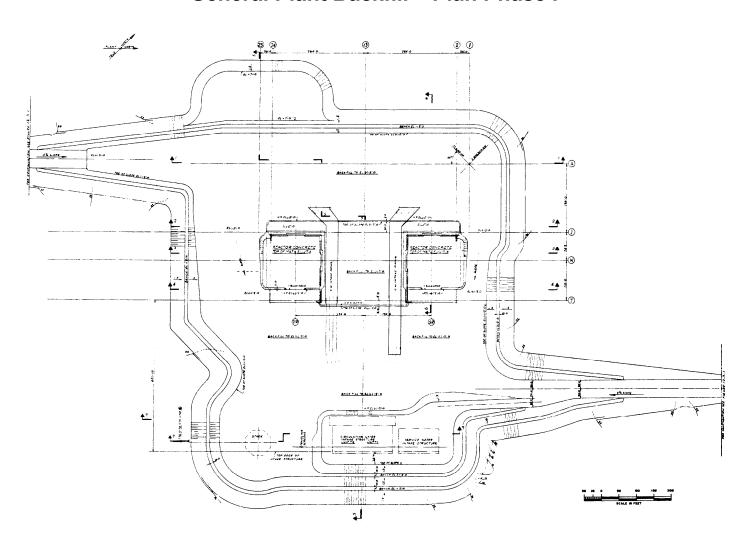


SITE CHARACTERISTICS CHAPTER 2 FIGURES Revision: Figure: 2

Figure: 2-43
Page: 1 of 1

24

#### General Plant Backfill - Plan Phase I





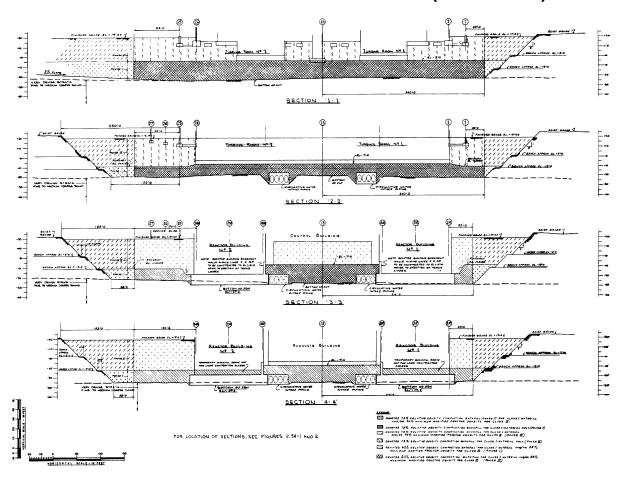
#### SITE CHARACTERISTICS CHAPTER 2 FIGURES

Revision: 24

Figure: 2-44

Page: 1 of 1

## **General Plant Excavation Sections (Part 1 of 2)**





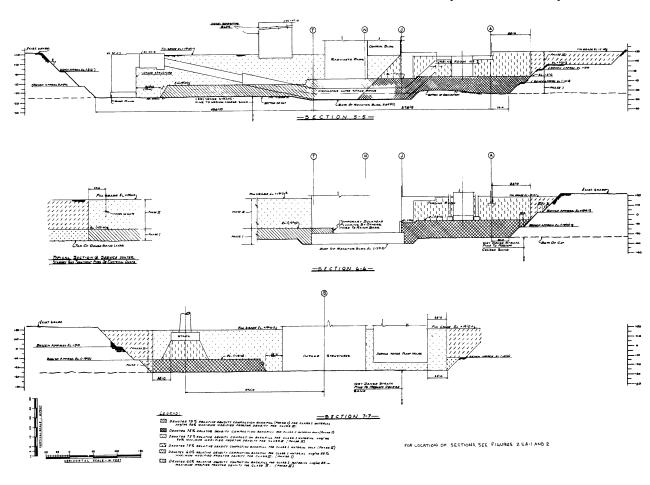
#### SITE CHARACTERISTICS CHAPTER 2 FIGURES

Revision: 24

Figure: 2-45

Page: 1 of 1

## **General Plant Excavation Sections (Part 2 of 2)**



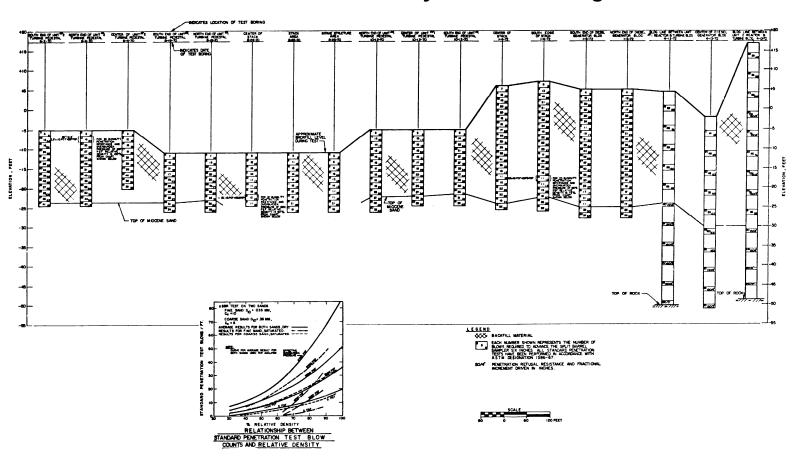


SITE CHARACTERISTICS CHAPTER 2 FIGURES Revision: 24

Figure: 2-46

Page: 1 of 1

## Test Data for All Standard Penetration Tests Performed at BSEP Site as Part of Quality Assurance Program





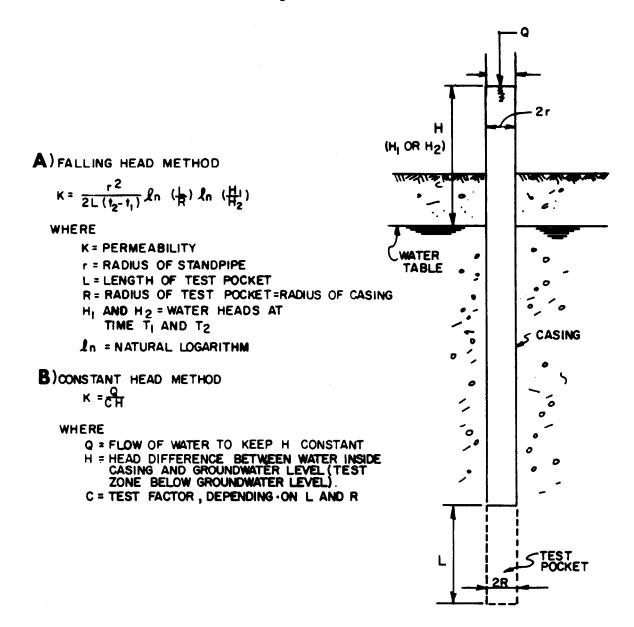
SITE CHARACTERISTICS CHAPTER 2 FIGURES Revision:

24 2-47

Figure: Page:

1 of 1

### Permeability Test In Insitu Soil





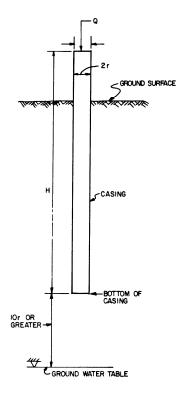
#### **SITE CHARACTERISTICS CHAPTER 2 FIGURES**

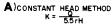
Revision: 24

Figure: 2-48

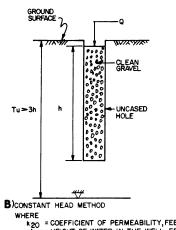
Page: 1 of 1

## **Permeability Test in Soil**





WHERE Q = FLOW OF WATER TO KEEP H CONSTANT H - DIFFERENTIAL HEAD OF WATER (DISTANCE BETWEEN WATER LEVEL IN CASING AND BOTTOM OF CASING). r = INTERNAL RADIUS OF CASING





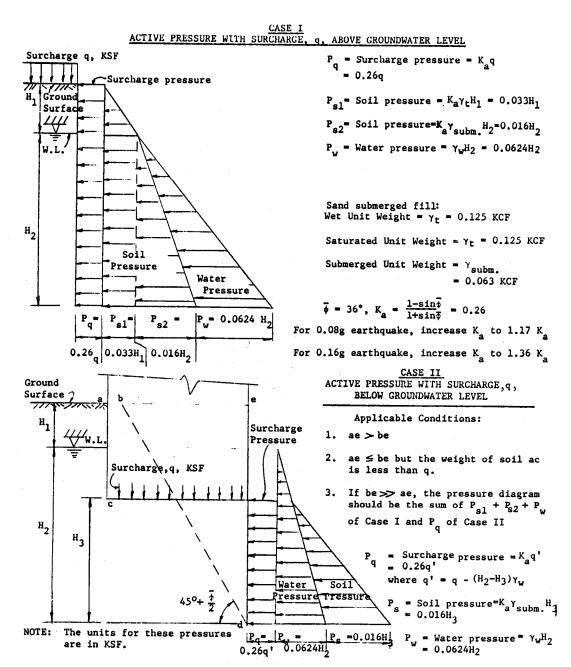
SITE CHARACTERISTICS CHAPTER 2 FIGURES Revision:

24 2-49

Figure: Page:

1 of 1

## Soil Pressure Diagrams for Foundation Design – Cases I and II



SITE CHARACTERISTICS CHAPTER 2 FIGURES Revision:

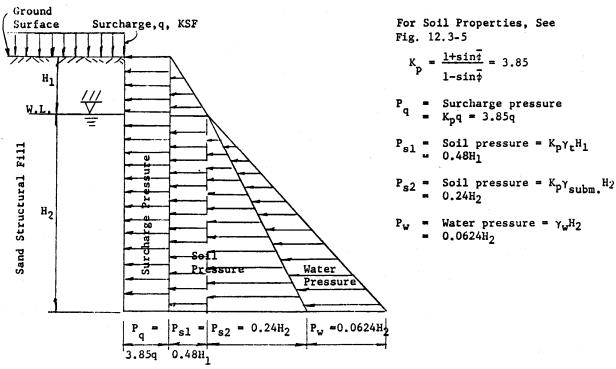
24 2-50

Figure: Page:

1 of 1

## Soil Pressure Diagrams for Foundation Design - Case III

PASSIVE PRESSURE WITH SURCHARGE, q, AT GROUND SURFACE



NOTE: The units for these pressures are in KSF.

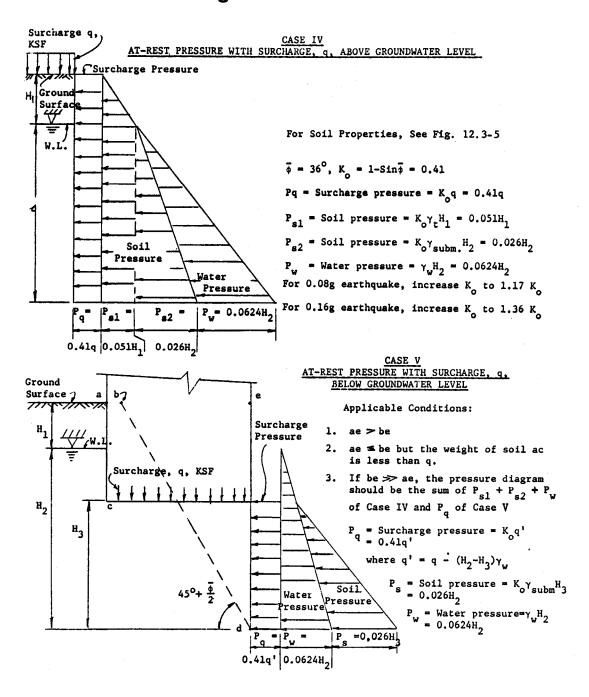
SITE CHARACTERISTICS CHAPTER 2 FIGURES Revision:

24 2-51

Figure: Page:

1 of 1

### Soil Pressure Diagrams for Foundation Design – Cases IV and V





SITE CHARACTERISTICS CHAPTER 2 FIGURES Revision:

24

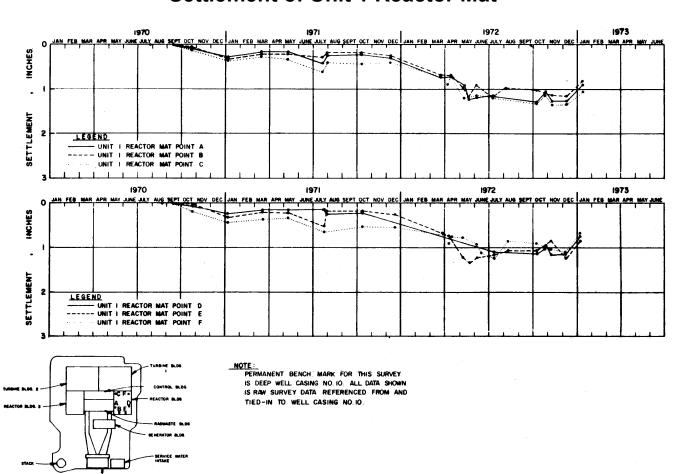
Figure:

2-52

Page:

1 of 1

#### **Settlement of Unit 1 Reactor Mat**





#### SITE CHARACTERISTICS CHAPTER 2 FIGURES

Revision:

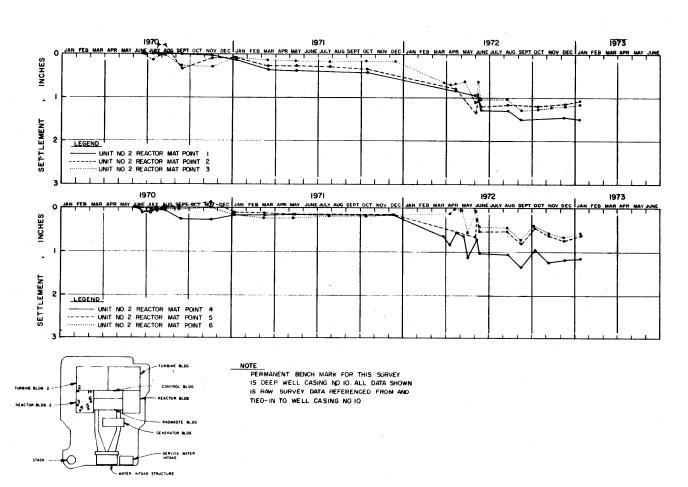
24

Figure:

2-53

Page: 1 of 1

#### **Settlement of Unit 2 Reactor Mat**





SITE CHARACTERISTICS CHAPTER 2 FIGURES Revision:

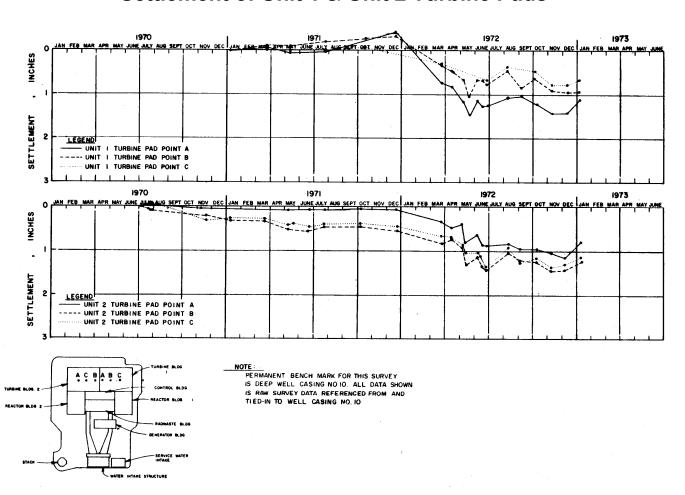
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Page: 1 of 1

24

2-54

#### **Settlement of Unit 1 & Unit 2 Turbine Pads**



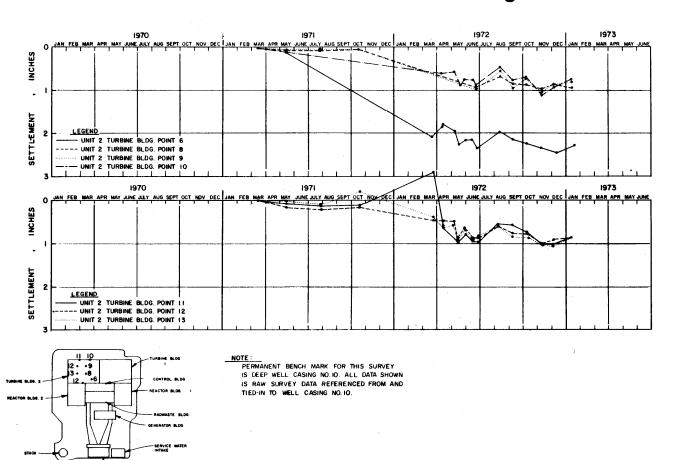


SITE CHARACTERISTICS CHAPTER 2 FIGURES Revision: 24

Figure: 2-55

Page: 1 of 1

## **Settlement of Unit 2 Turbine Building**



- WATER INTAKE STRUCTURE



SITE CHARACTERISTICS CHAPTER 2 FIGURES Revision:

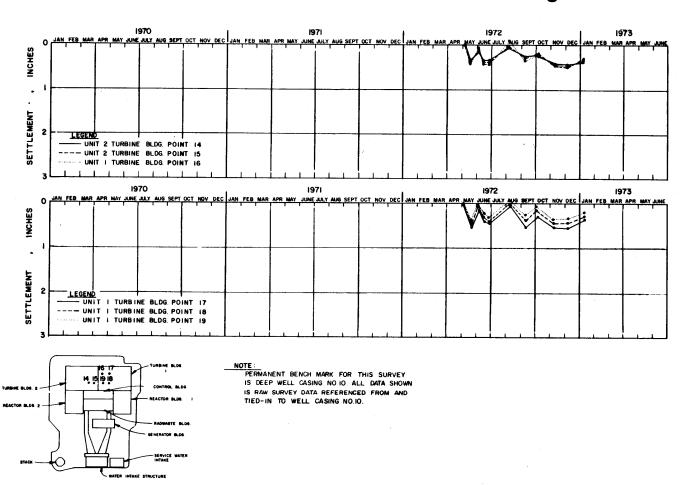
Figure:

2-56

24

Page: 1 of 1

## **Settlement of Unit 1 & Unit 2 Turbine Buildings**





SITE CHARACTERISTICS **CHAPTER 2 FIGURES** 

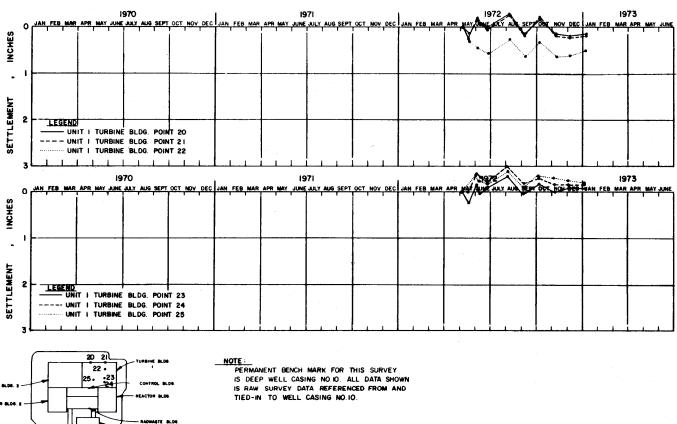
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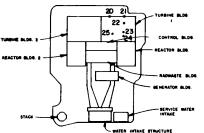
24 2-57

Figure: Page:

1 of 1

## **Settlement of Unit 1 Turbine Building**







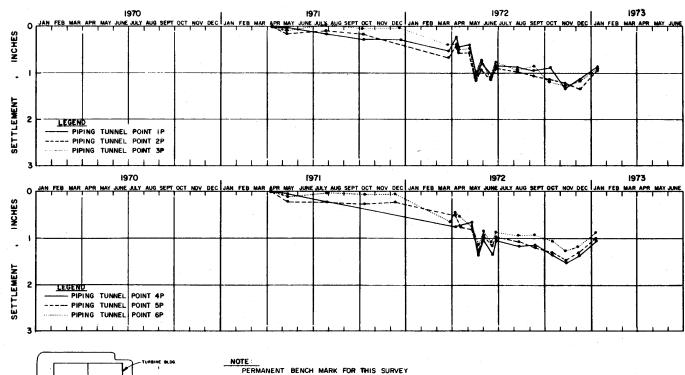
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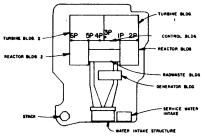
24

Figure: 2-58

Page: 1 of 1

## **Settlement of Piping Tunnel**





PERMANENT BENCH MARK FOR THIS SURVEY
IS DEEP WELL CASING NO IO. ALL DATA SHOWN
IS RAW SURVEY DATA REFERENCED FROM AND

TIED-IN TO WELL CASING NO. IO .



SITE CHARACTERISTICS CHAPTER 2 FIGURES Revision:

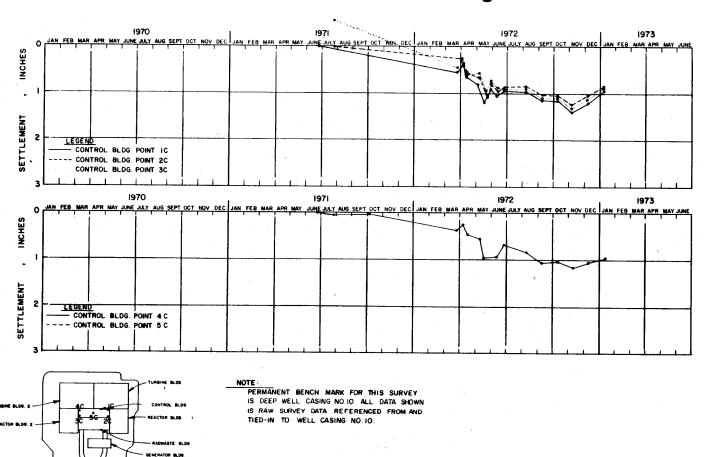
Figure: 2-59

Page:

1 of 1

24

## **Settlement of Control Building**





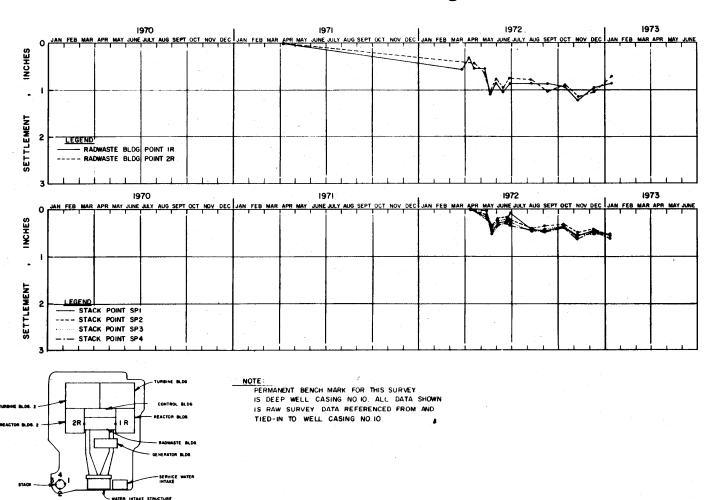
SITE CHARACTERISTICS CHAPTER 2 FIGURES Revision:

24 2-60

Figure: Page:

1 of 1

## **Settlement of Radwaste Building and Stack**





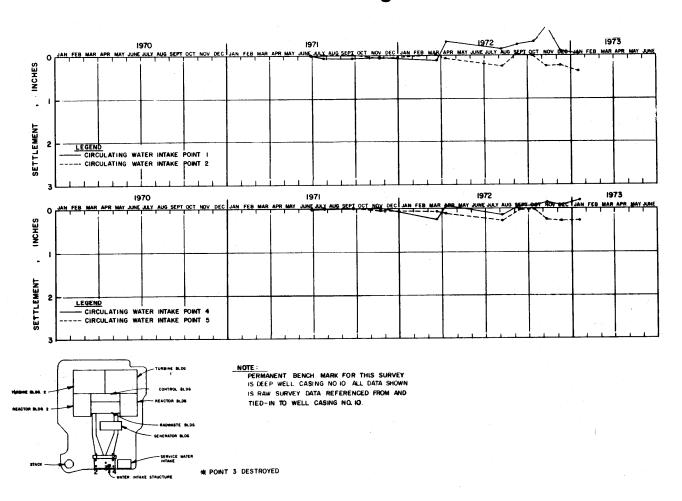
SITE CHARACTERISTICS CHAPTER 2 FIGURES Revision:

24 2-61

Figure: Page:

1 of 1

## **Settlement of Circulating Water Intake**





#### SITE CHARACTERISTICS CHAPTER 2 FIGURES

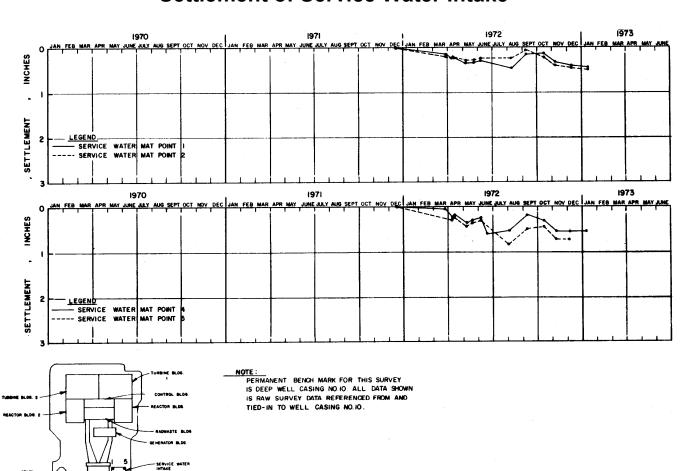
Revision:

24 2-62

Figure: Page:

1 of 1

#### **Settlement of Service Water Intake**





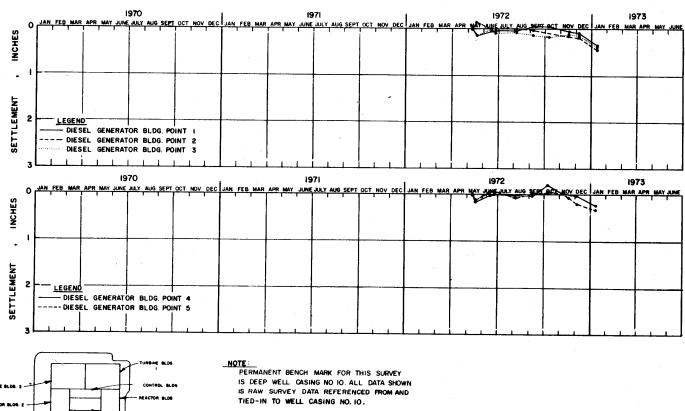
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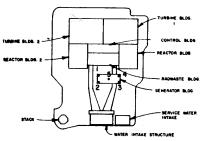
24 2-63

Figure: Page:

1 of 1

## **Settlement of Diesel Generator Building**







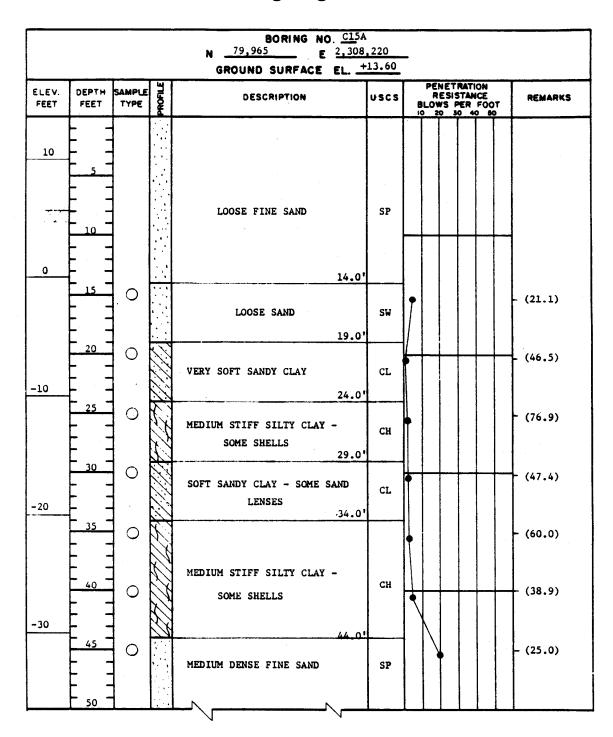
SITE CHARACTERISTICS CHAPTER 2 FIGURES Revision:

24 2-64

Figure: Page:

1 of 3

## Intake Canal Boring Log C15A – Sheet 1 of 3





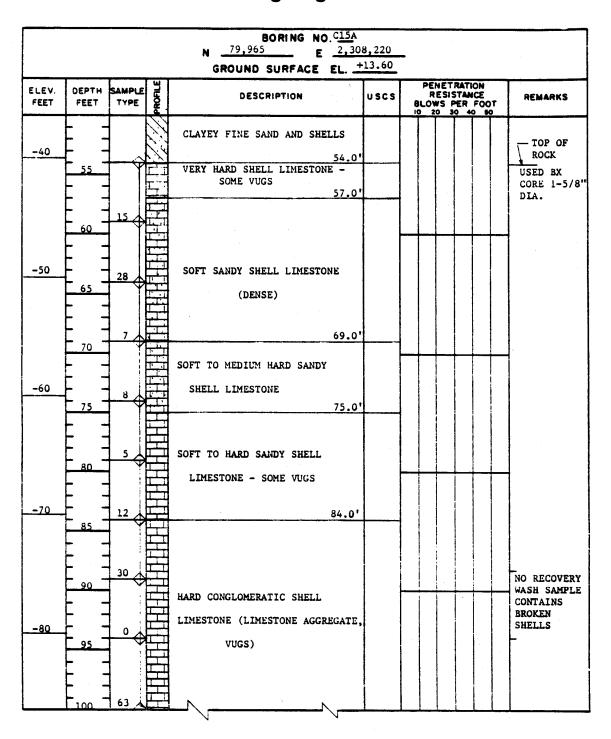
SITE CHARACTERISTICS CHAPTER 2 FIGURES Revision:

24

Figure: Page:

2-64 2 of 3

## Intake Canal Boring Log C15A - Sheet 2 of 3





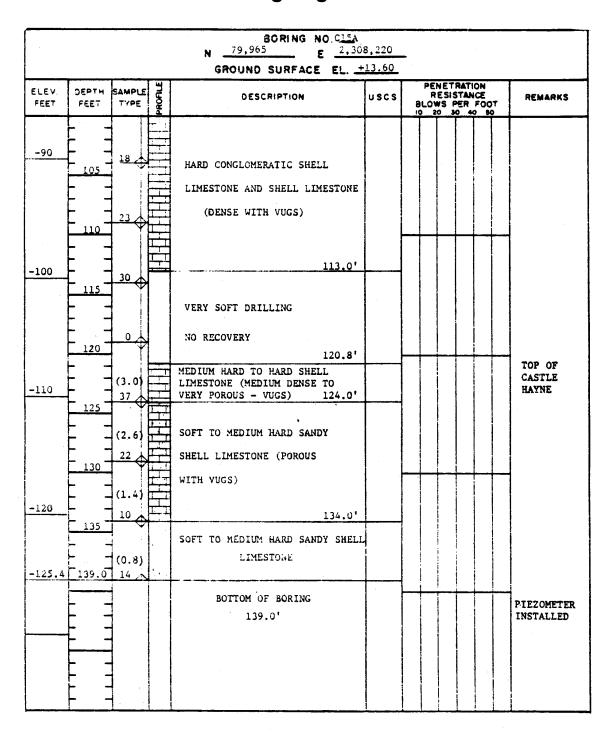
SITE CHARACTERISTICS CHAPTER 2 FIGURES Revision:

24 2-64

Figure: Page:

3 of 3

## Intake Canal Boring Log C15A - Sheet 3 of 3





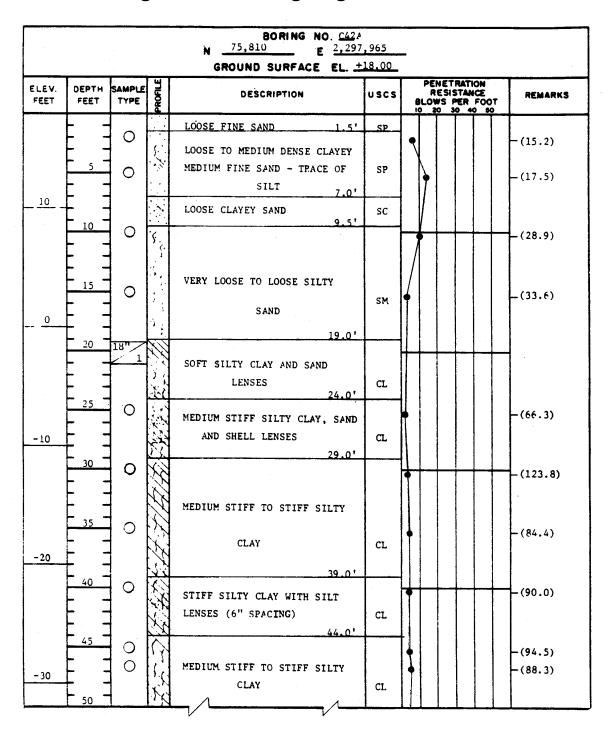
SITE CHARACTERISTICS CHAPTER 2 FIGURES Revision:

24 2-65

Figure: Page:

1 of 3

### Discharge Canal Boring Log C42A - Sheet 1 of 3





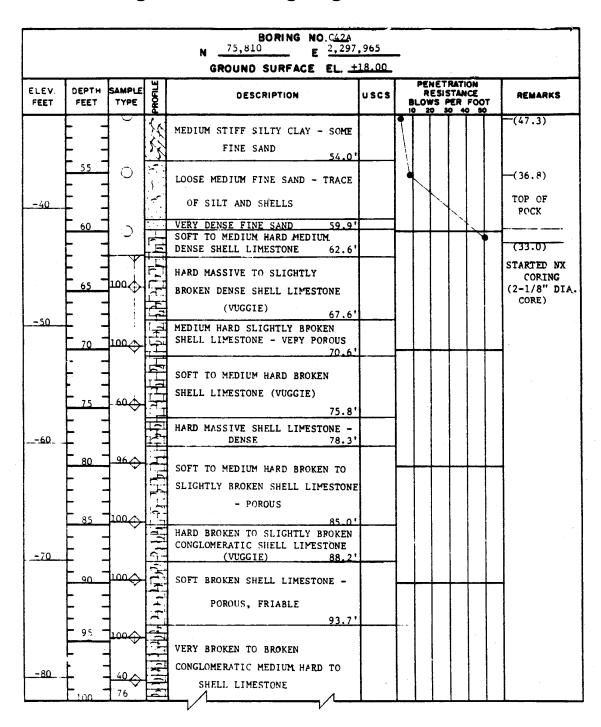
SITE CHARACTERISTICS CHAPTER 2 FIGURES Revision:

24 2-65

Figure: Page:

2 of 3

### Discharge Canal Boring Log C42A - Sheet 2 of 3





SITE CHARACTERISTICS CHAPTER 2 FIGURES Revision:

24 2-65

Figure: Page:

3 of 3

## Intake Canal Boring Log C42A – Sheet 3 of 3

BORING NO. <u>C42</u> A N75.810 E _2.297.965									
ELEV. FEET	DEPTH FEET	SAMPLE TYPE	PROFILE	DESCRIPTION	uscs	BLO	NETRAT ESISTA WS. PER	FOOT	REMARKS
	<u> </u>		1	SAME AS ABOVE 101 1'					
	L =	76.	7	HARD SLIGHTLY BPOKEN TO MASSIVE	! I				
	105	\ \frac{\sqrt{1}}{2}		CONGLOMERATIC SHELL LIMESTONE	1 1				
	103			105.0' SOFT TO MEDIUM HARD SHELL					
		: 1	1	LIMESTONE - SLIGHTLY POROUS 107.8		ĺ			TOP OF CASTLE HAYNI
-90		_82 <b>-</b> ♦	-						
	110	, i	7-1	MEDIUM HARD BROKEN SHELL LIMESTONE - POROUS 110.0"					
		(3.0)	J,	MEDIUM HARD VEPY BPOKEN SHELL					1
	├ -	46	12!	LIMESTONE - POPOUS					1
		*	++#	SOFT TO MEDIUM HADD MAGGINE					
	115		4	SOFT TO MEDIUM HARD MASSIVE TO BROKEN MEDIUM DENSE SHELL					
	t =	(0.8)	1	LIMESTONE - SLIGHTLY POROUS					
-100	F -	100		118.3'					
	120 -			MEDIUM HARD SLIGHTLY BROKEN					
		(0.4)		MEDIUM DENSE SHELL LIMESTONE 120.	<del>   </del>			1 1	1
	<b>-</b>	90	77						
				SOFT TO MEDIUM HARD SLIGHTLY	l i				1
	125			BROKEN SANDY TEXTURED SHELL					
	<b>-</b>	(0.6)		LIMESTONE - POROUS, FRIABLE		-			
-109.8	127.8	0 '	-						PIEZOMETER
	├ -			BOTTOM OF BORING					INSTALLED AT
				127.8'				++-	COMPLETION OF BORING
	-			<i>••••</i>					or boking
	├ -								
			l	*					
					<b> </b>		-+-	┼-┼-	4
									1
	├ -			į					
									1
	<u> </u>								
	<u> </u>								
	L				<u> </u>				<u> </u>
				BORING COMPLETED 1-29	-70				