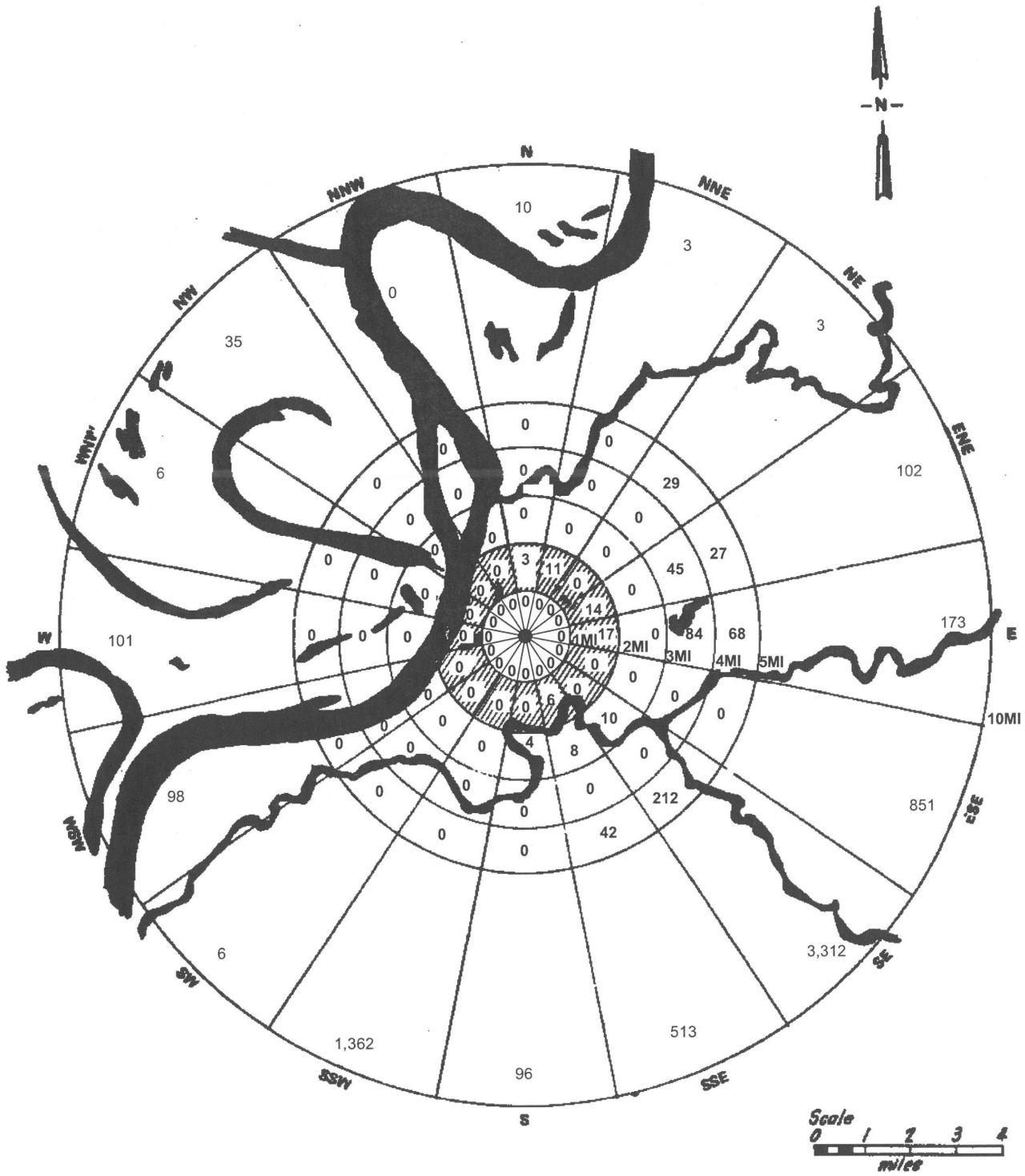


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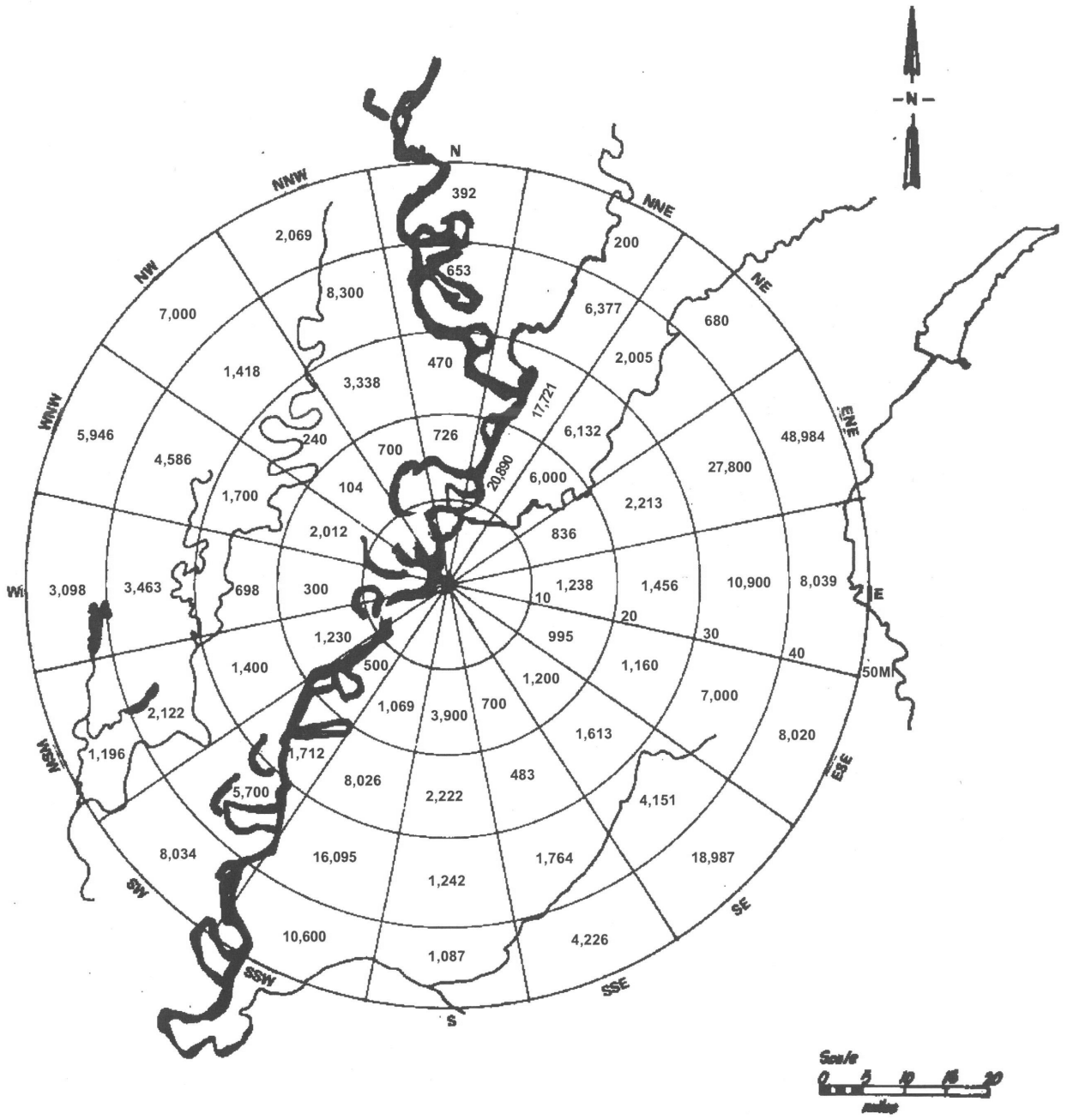
GRAND GULF NUCLEAR STATION SITE
EARLY SITE PERMIT APPLICATION
ENVIRONMENTAL REPORT

PROJECTED 2002
POPULATION DISTRIBUTION
0 - 10 MILES
(UFSAR FIGURE 2.1-6)

FIGURE 2.5-1 REV. 1

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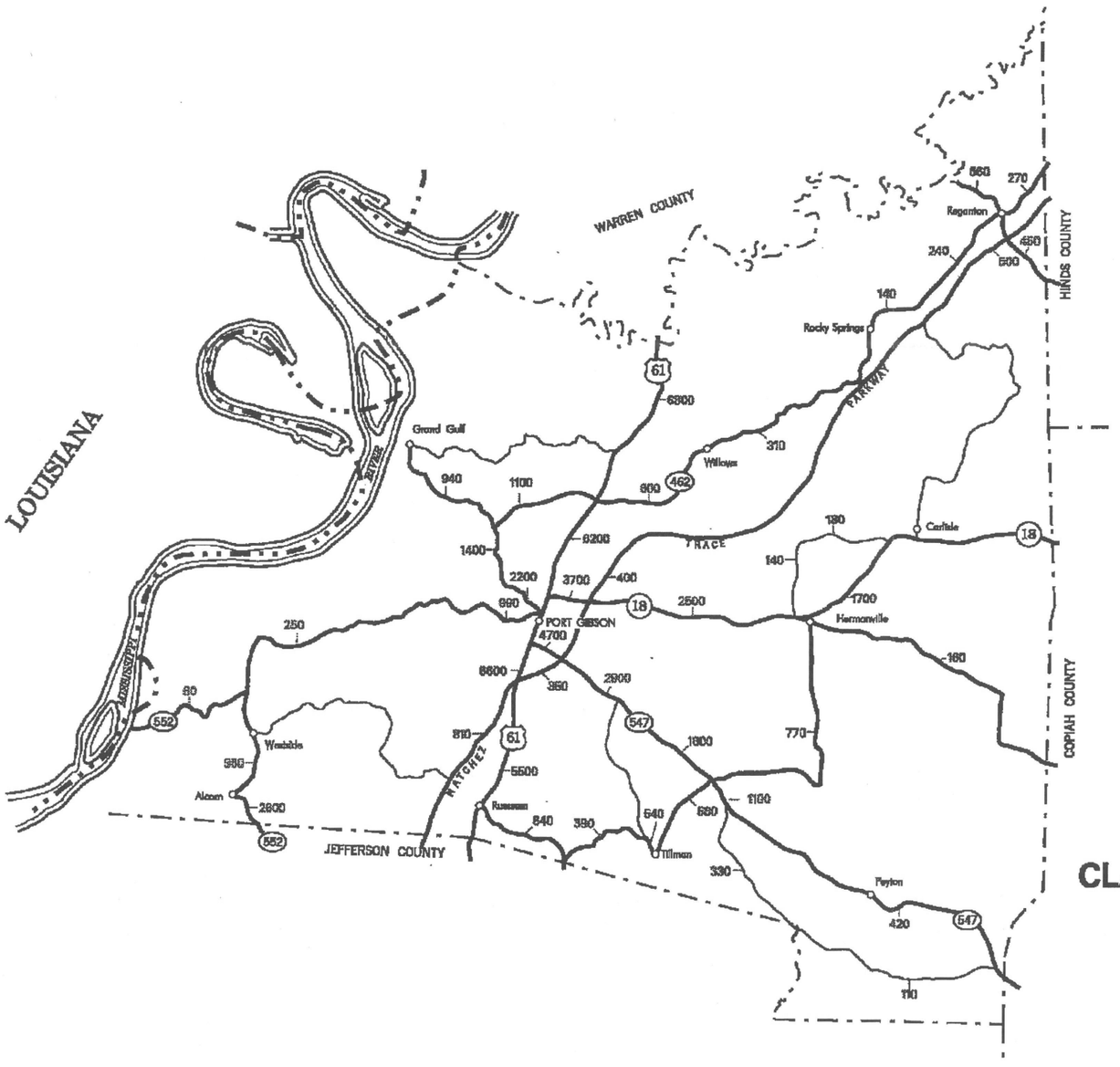
ENVIRONMENTAL REPORT

PROJECTED 2002
POPULATION DISTRIBUTION
10 - 50 MILE RADIUS
(UFSAR FIGURE 2.1-4)

FIGURE 2.5-2 REV. 1




ESTIMATED 2000
AVERAGE DAILY TRAFFIC

# CLAIBORNE COUNTY
MISSISSIPPI

PREPARED BY
MISSISSIPPI DEPARTMENT OF TRANSPORTATION
PLANNING DIVISION
IN COOPERATION WITH THE
U.S. DEPARTMENT OF TRANSPORTATION
FEDERAL HIGHWAY ADMINISTRATION

CLAIBORNE COUNTY 11

CLAIBORNE COUNTY 11

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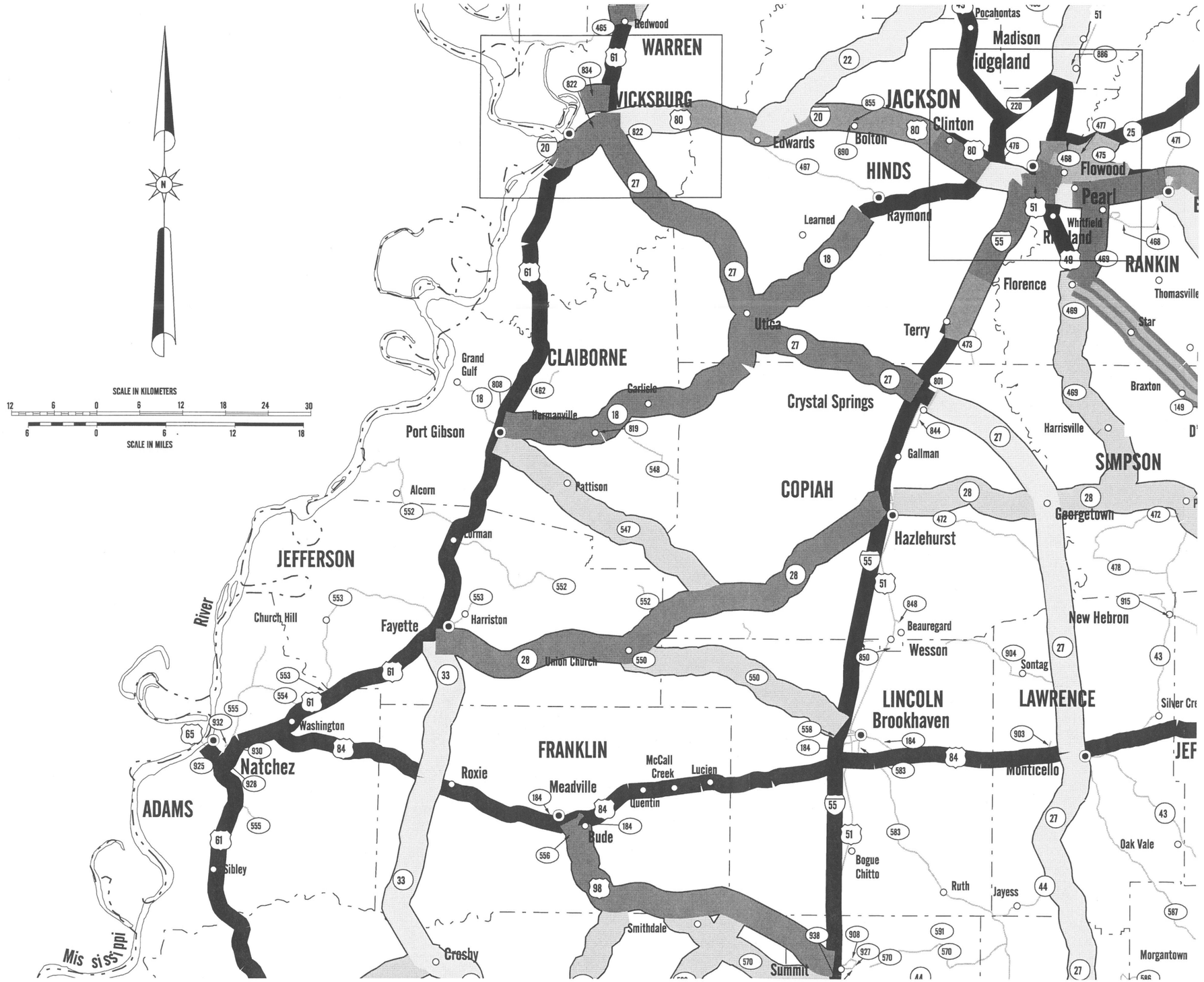
EARLY SITE PERMIT APPLICATION
ENVIRONMENTAL REPORT

ESTIMATED 2000 DAILY
TRAFFIC COUNT
WITHIN CLAIBORNE COUNTY

FIGURE 2.5-3 REV. 1




# LOOKING A.H.E.A.D.

MDOT VISION 21

## LEGEND

- Commited
- Immediate
- Mid-Range
- Long-Range
- Passing Lanes
- Special Funding

  The Special Funding Category consists of needs that are contingent upon obtaining additional Federal Funding.
- U.S. 49

  As an Immediate Needs, US 49 will have 100 million of spot improvements along the entire corridor. Special Funding will be required for Interstate Standards

## VISION 21

REGULAR SESSION
2002 LEGISLATURE

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MISSISSIPPI DEPARTMENT OF TRANSPORTATION
PLANNING DEVISION
IN COOPERATION WITH THE
U.S. DEPARTMENT OF TRANSPORTATION
FEDERAL HIGHWAY ADMINISTRATION
TRANSVERSE MERCATOR PROJECTION,
STATE PLANE COORDINATE SYSTEM 1983

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GRAND GULF NUCLEAR STATION SITE
EARLY SITE PERMIT APPLICATION
ENVIRONMENTAL REPORT

MISSISSIPPI DOT ROADWAY
DEVELOPMENT PRIORITY

FIGURE 2.5-4 REV. 1

Scale 1:175,000 (at center)

2 Miles

5 KM

- Local Road
- Major Connector
- Interstate/Unlimited Access
- State Route
- Trail
- US Highway
- Utility/Pipe
- County Seat
- Small Town
- Airfield
- Summit
- Geographic Feature
- Park/Reservation
- Locale
- Public Airport
- Railroad Abandoned

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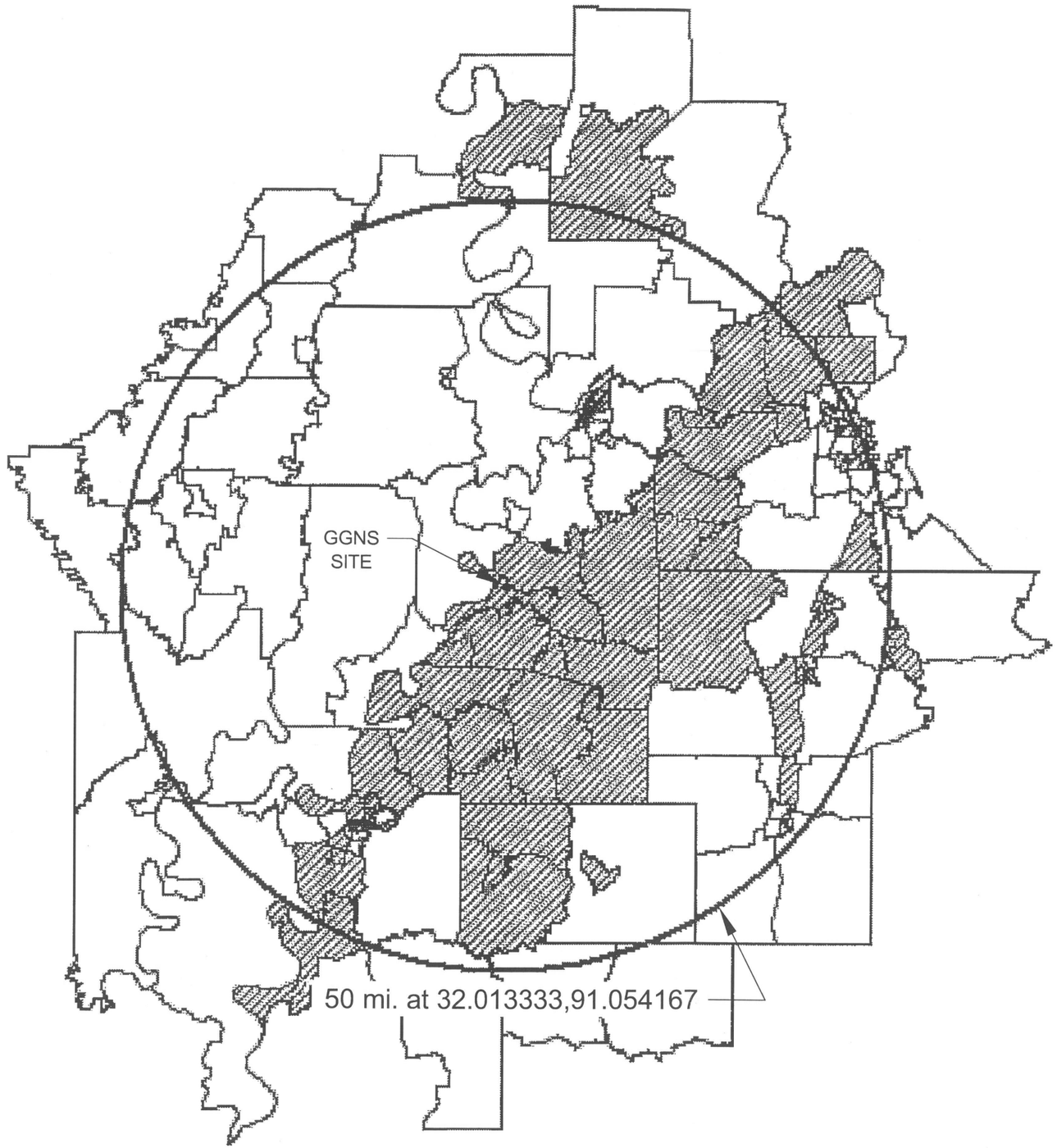
EARLY SITE PERMIT APPLICATION
ENVIRONMENTAL REPORT

HISTORIC RESOURCE LOCATIONS
IN GGNS SITE VICINITY

FIGURE 2.5-5 REV. 1




LEGEND:

MINORITY POPULATION >50 %
OF TOTAL POPULATION

NOTES:

1. MISSISSIPPI STATE MINORITY POPULATION AVERAGE = 39.6 %.
2. 2000 CENSUS DATA USED.

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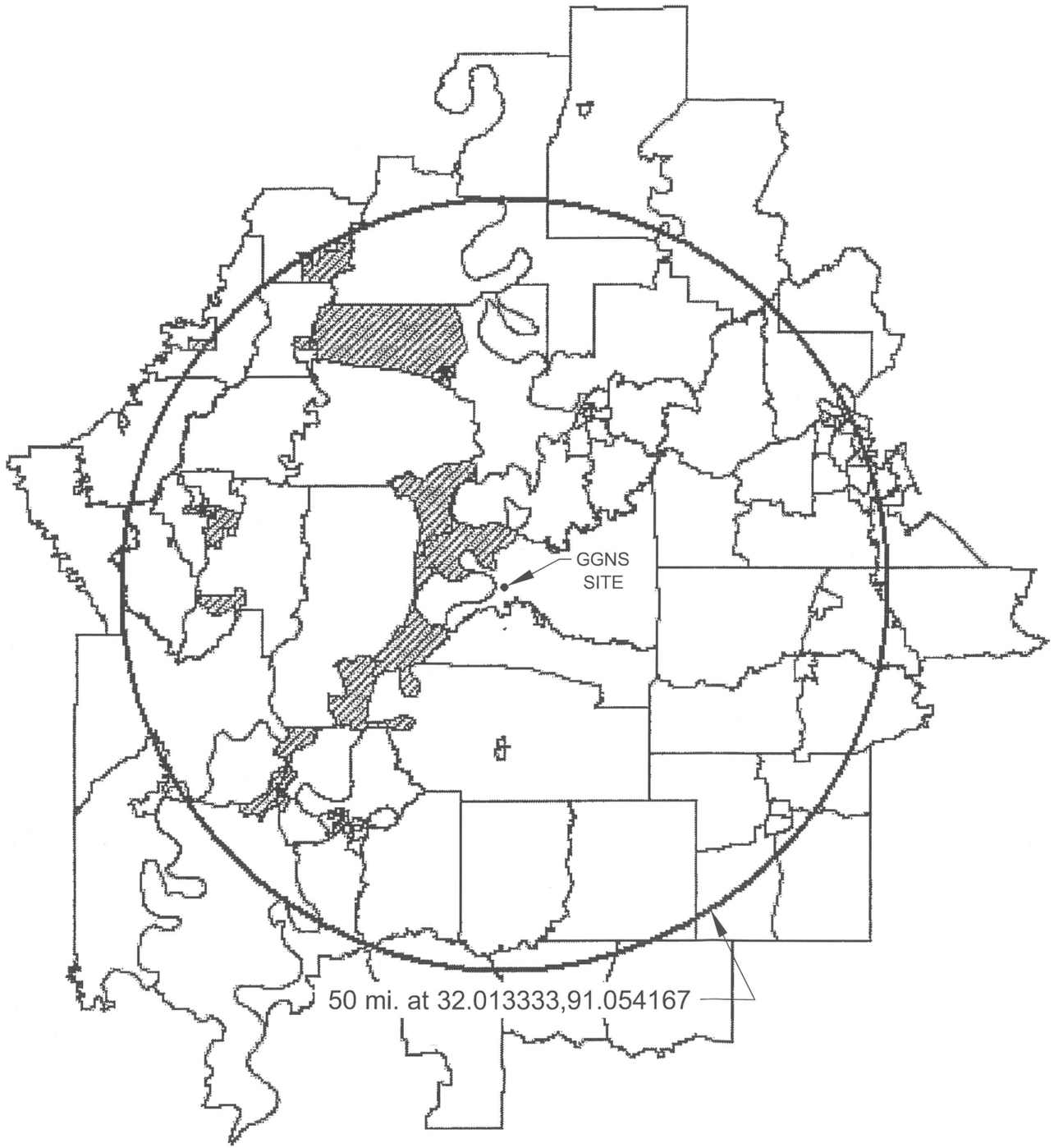
EARLY SITE PERMIT APPLICATION
ENVIRONMENTAL REPORT

MISSISSIPPI
MINORITY POPULATION MAP
FOR GGNS SITE REGION

FIGURE 2.5-6 REV. 1




LEGEND:

MINORITY POPULATION >50 %
OF TOTAL POPULATION

NOTES:

1. LOUISIANA STATE MINORITY POPULATION AVERAGE = 37.1 %.
2. 2000 CENSUS DATA USED.

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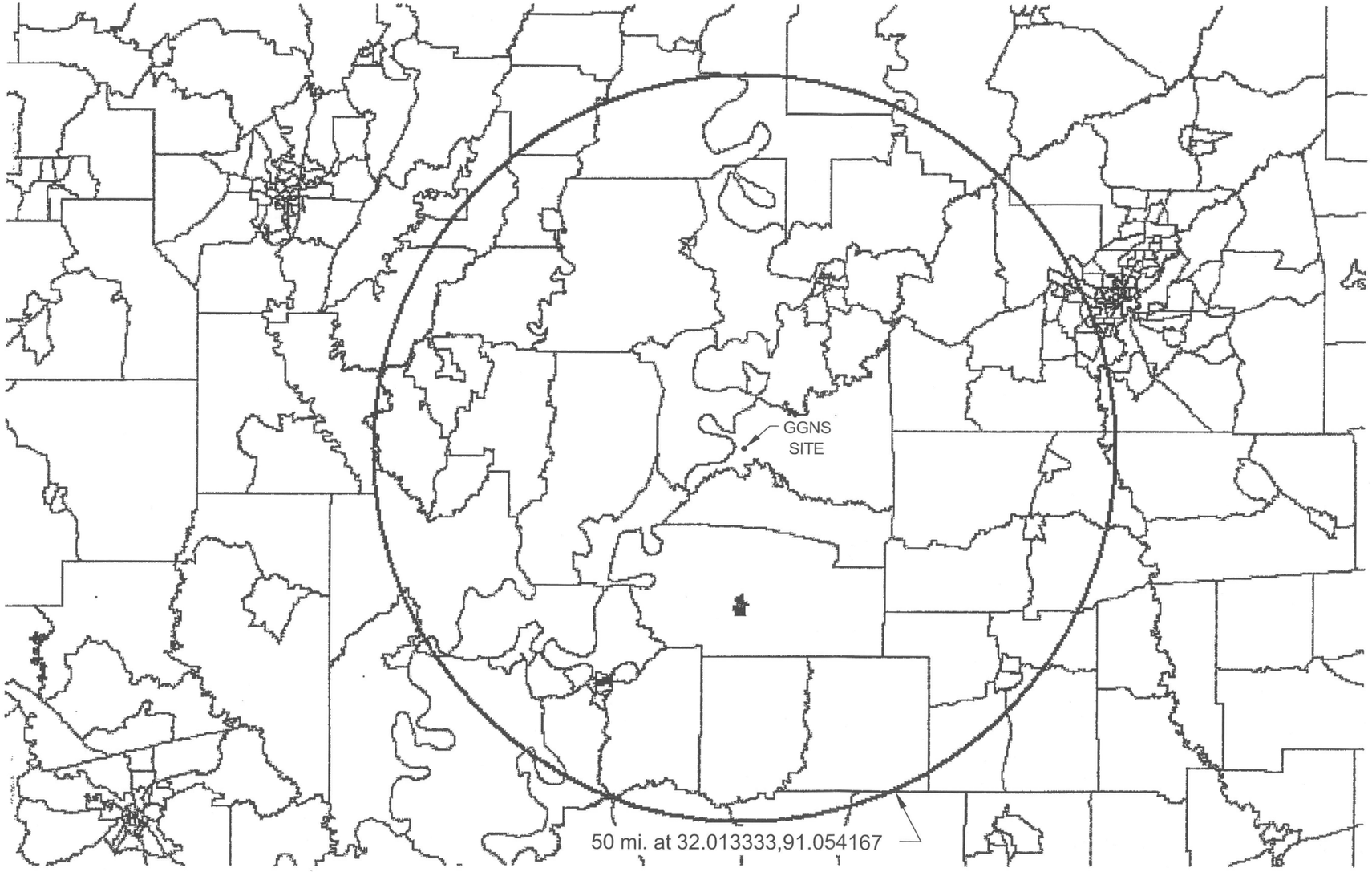
ENVIRONMENTAL REPORT

LOUISIANA STATE
MINORITY POPULATION MAP
FOR GGNS SITE REGION

FIGURE 2.5-7 REV. 1




LEGEND:

LOW-INCOME POPULATION AREAS
BASED ON LIC-203 DEFINITION &
2000 US CENSUS TRACT DATA

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EARLY SITE PERMIT APPLICATION
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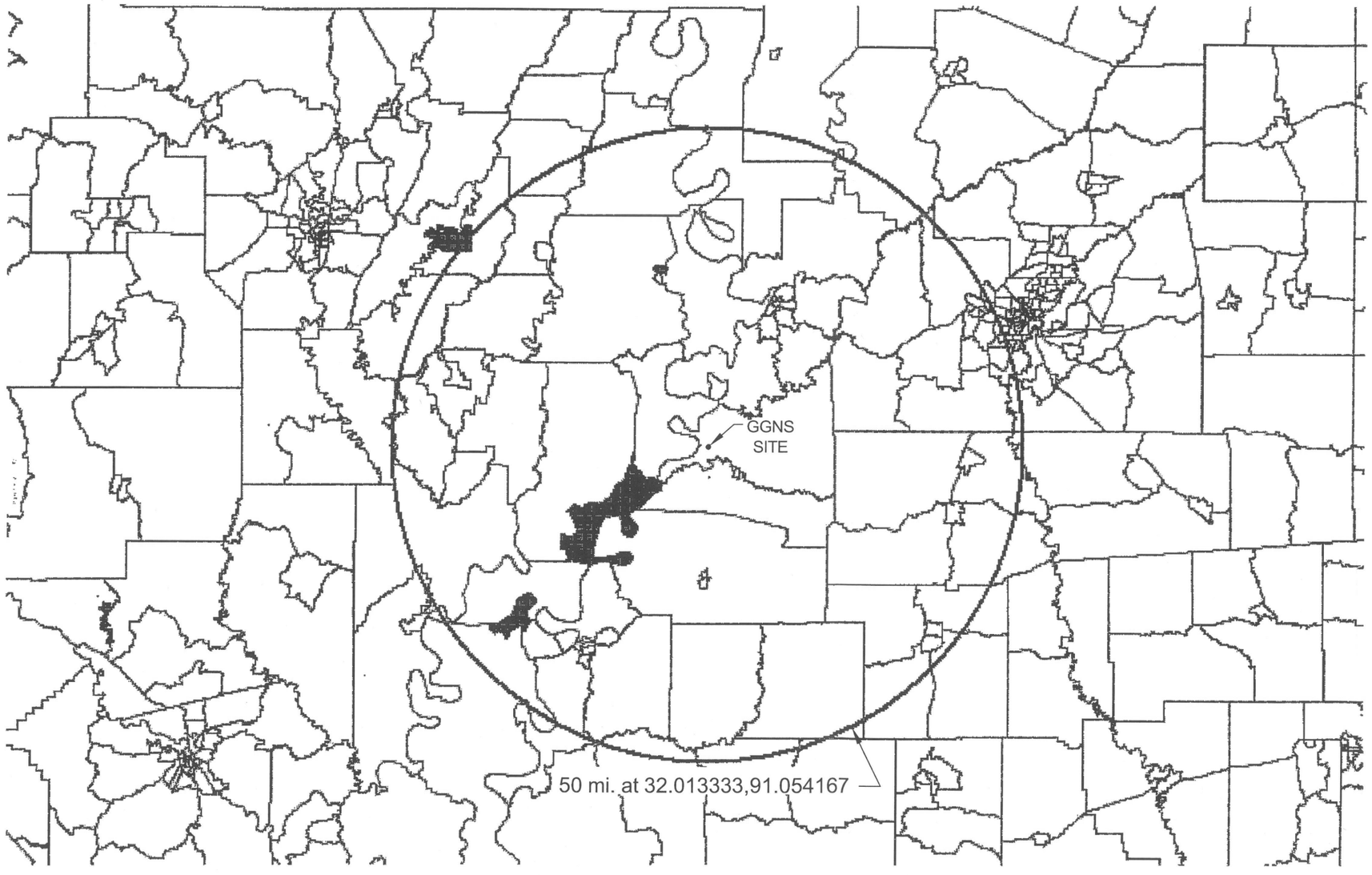
MISSISSIPPI
LOW-INCOME POPULATION AREAS
IN GGNS SITE REGION

FIGURE 2.5-8 REV. 1




LEGEND:

LOW-INCOME POPULATION AREAS
BASED ON LIC-203 DEFINITION &
2000 US CENSUS TRACT DATA

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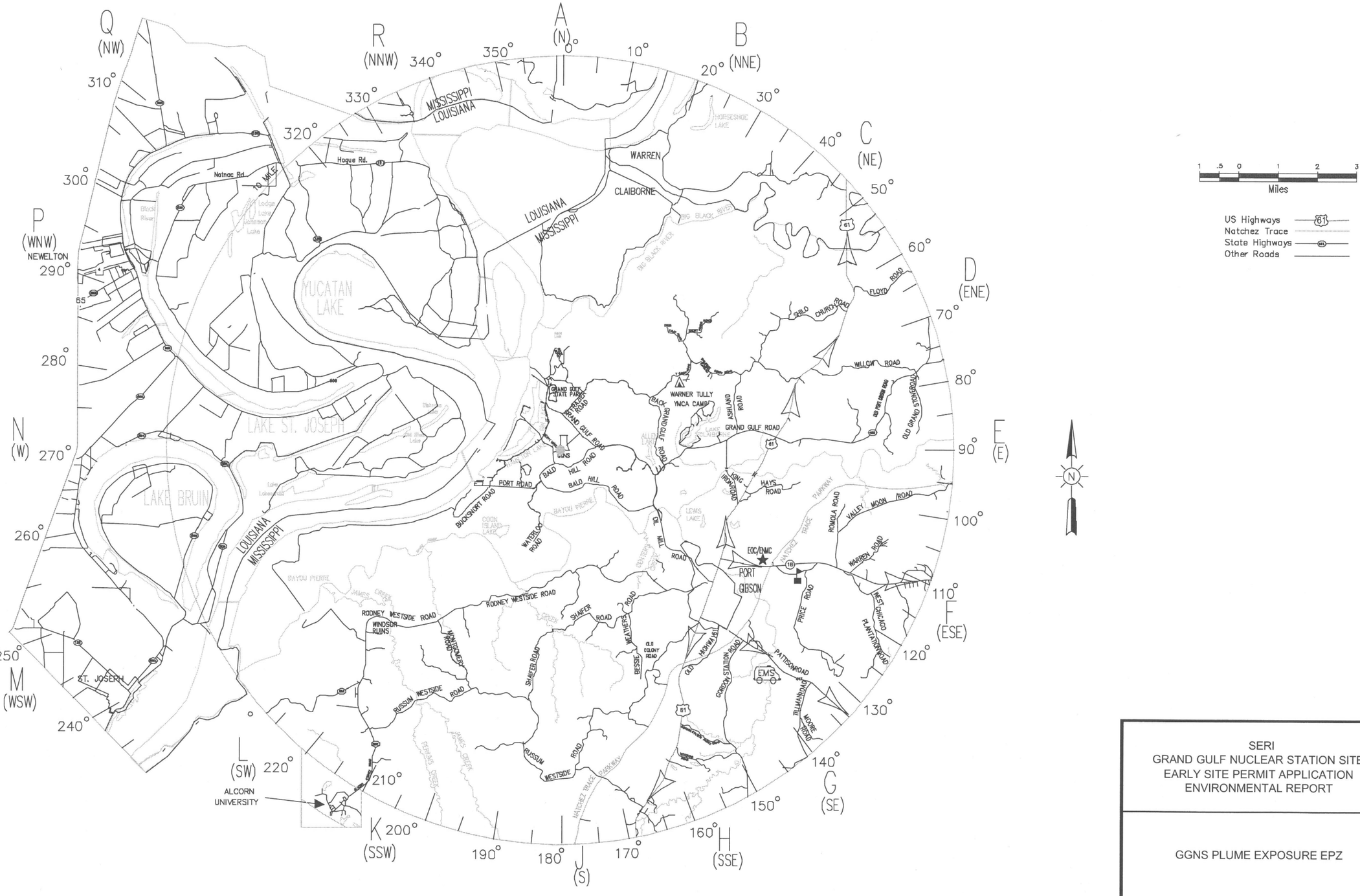
EARLY SITE PERMIT APPLICATION
ENVIRONMENTAL REPORT

LOUISIANA
LOW-INCOME POPULATION AREAS
IN GGNS SITE REGION

FIGURE 2.5-9 REV. 1

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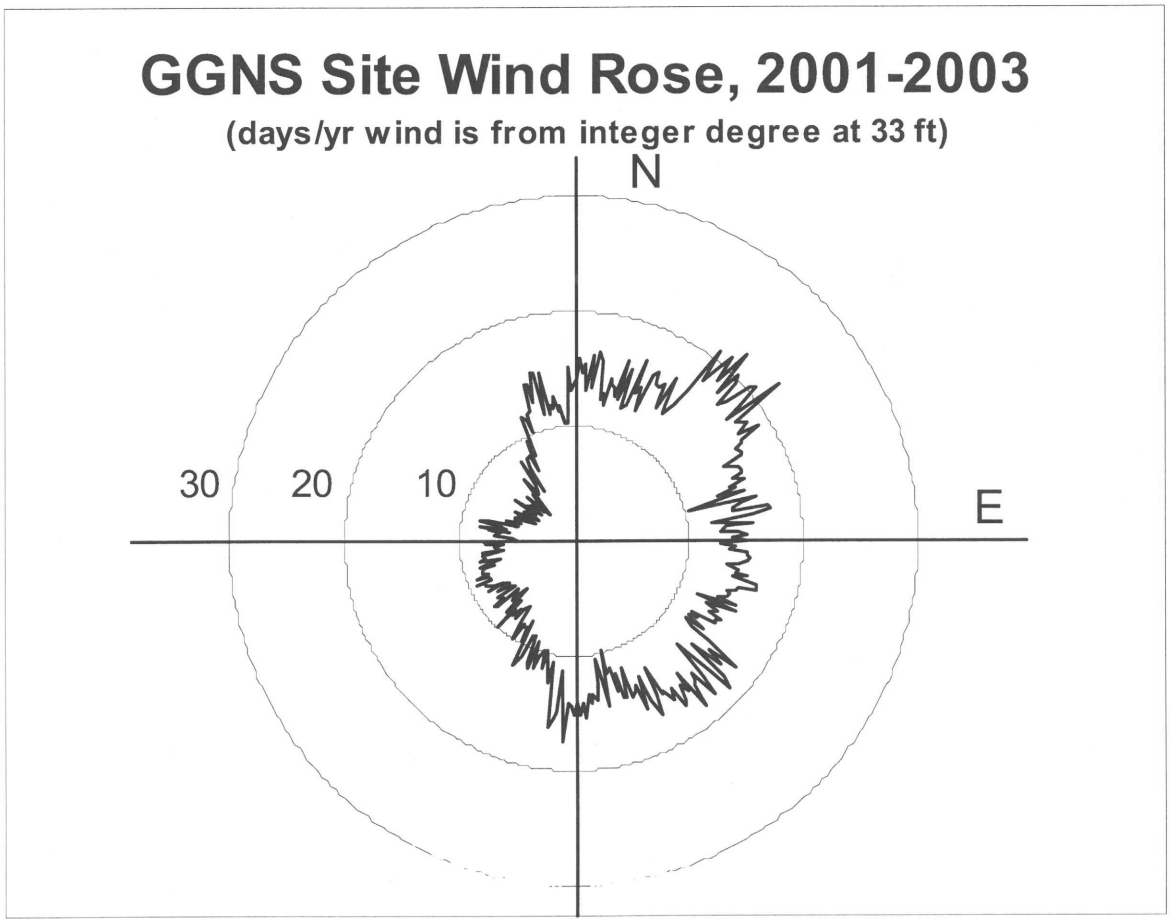
EARLY SITE PERMIT APPLICATION
ENVIRONMENTAL REPORT

GGNS PLUME EXPOSURE EPZ

FIGURE 2.5-10 REV. 1

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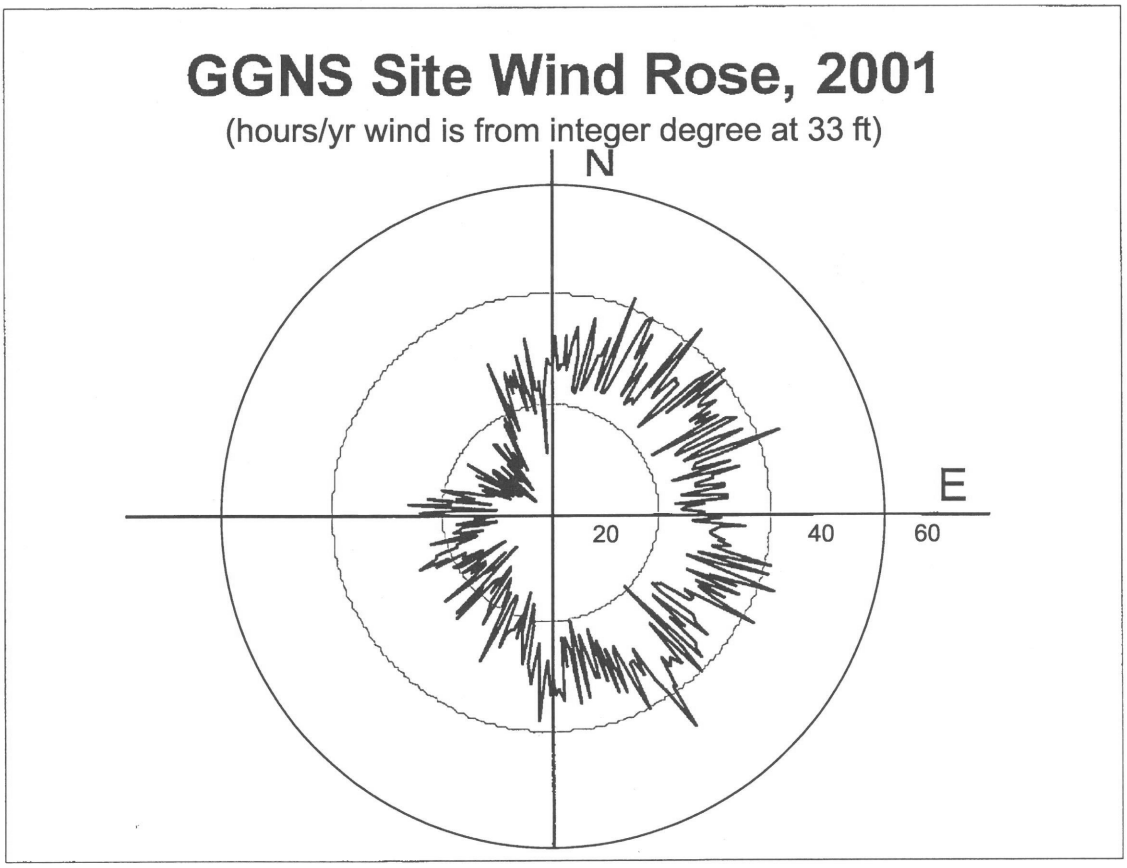
EARLY SITE PERMIT APPLICATION
ENVIRONMENTAL REPORT

GGNS SITE WIND ROSE,
2001-2003

FIGURE 2.7-1 REV. 1

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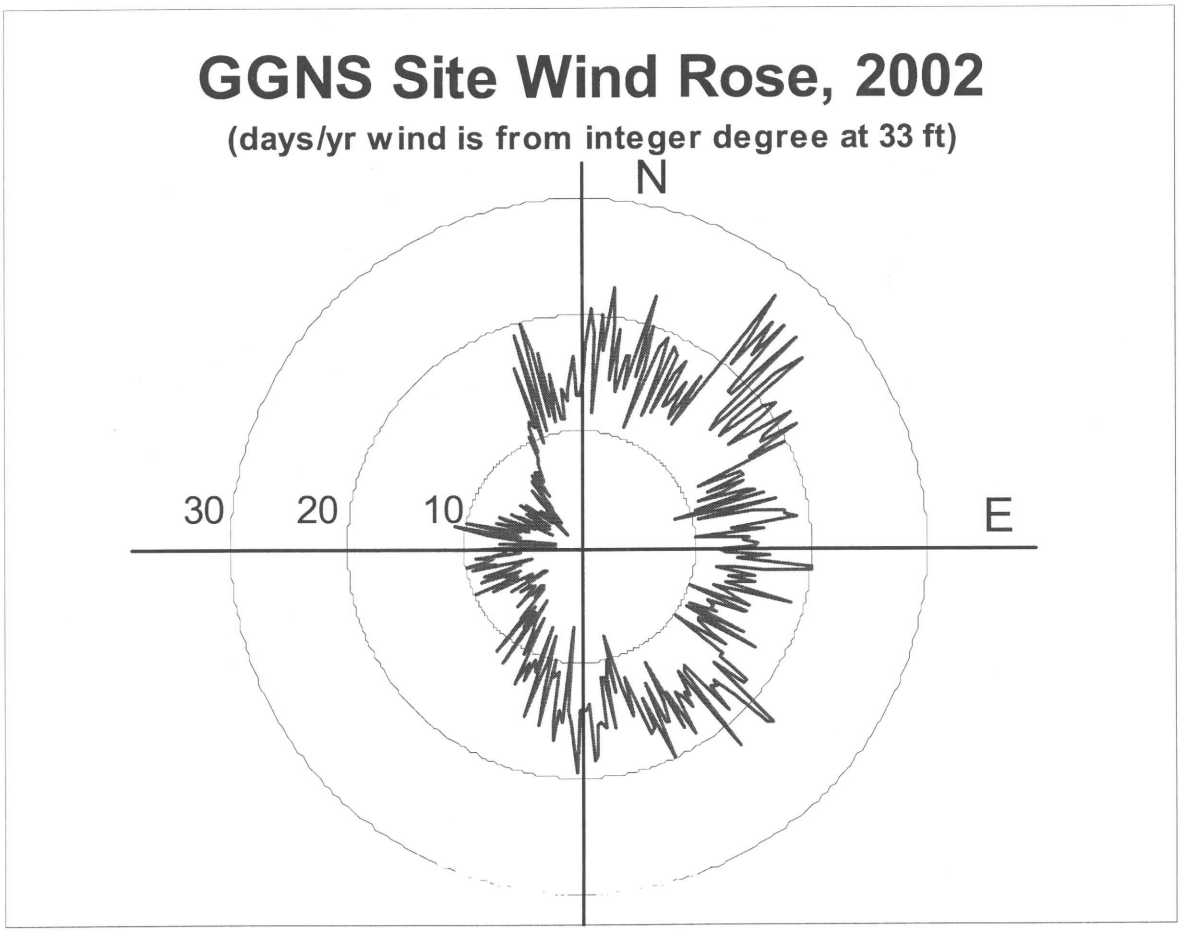
EARLY SITE PERMIT APPLICATION
ENVIRONMENTAL REPORT

GGNS SITE WIND ROSE,
2001

FIGURE 2.7-2 REV. 1

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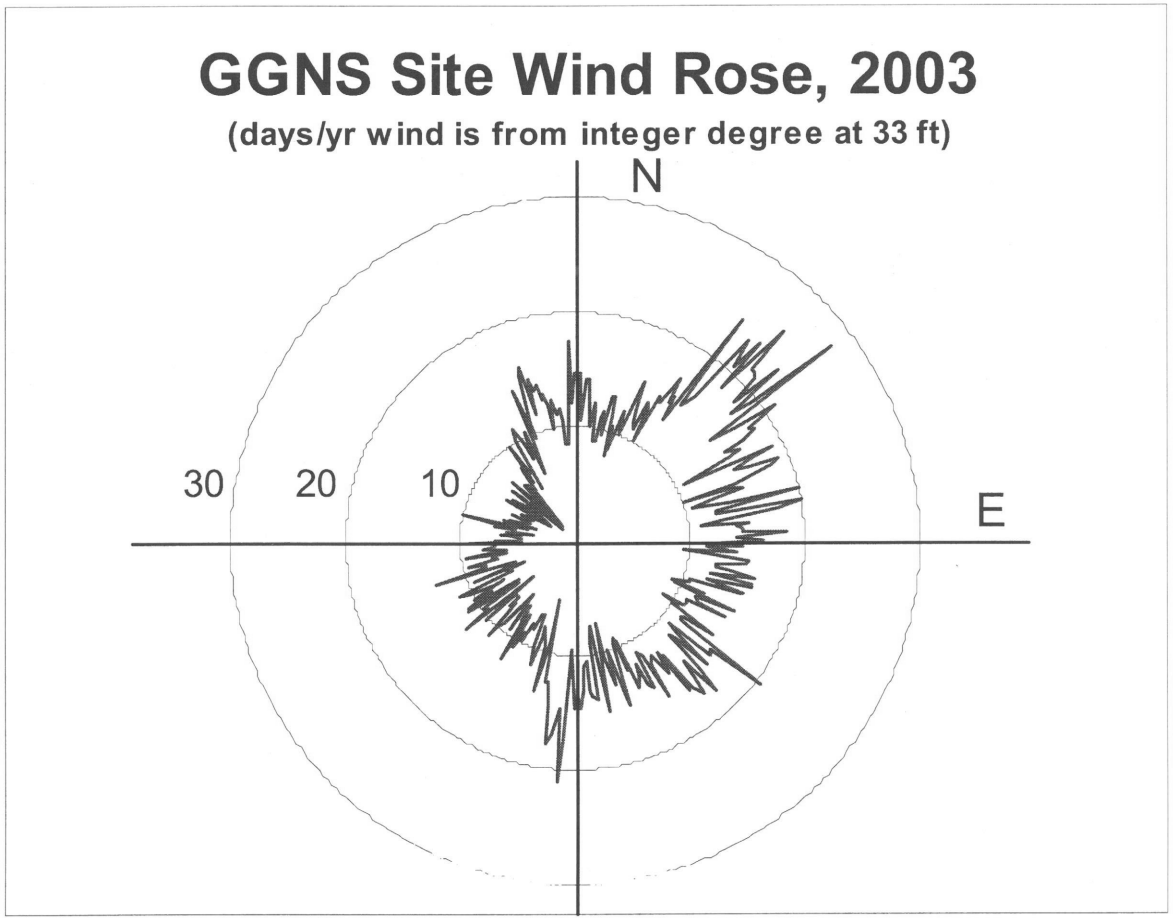
ENVIRONMENTAL REPORT

GGNS SITE WIND ROSE,
2002

FIGURE 2.7-3 REV. 1

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GGNS SITE WIND ROSE,
2003

FIGURE 2.7-4 REV. 1

# DELETED

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FIGURE 2.7-5 REV. 1

# DELETED

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EARLY SITE PERMIT APPLICATION
ENVIRONMENTAL REPORT

FIGURE 2.7-6 REV. 1

# DELETED

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EARLY SITE PERMIT APPLICATION
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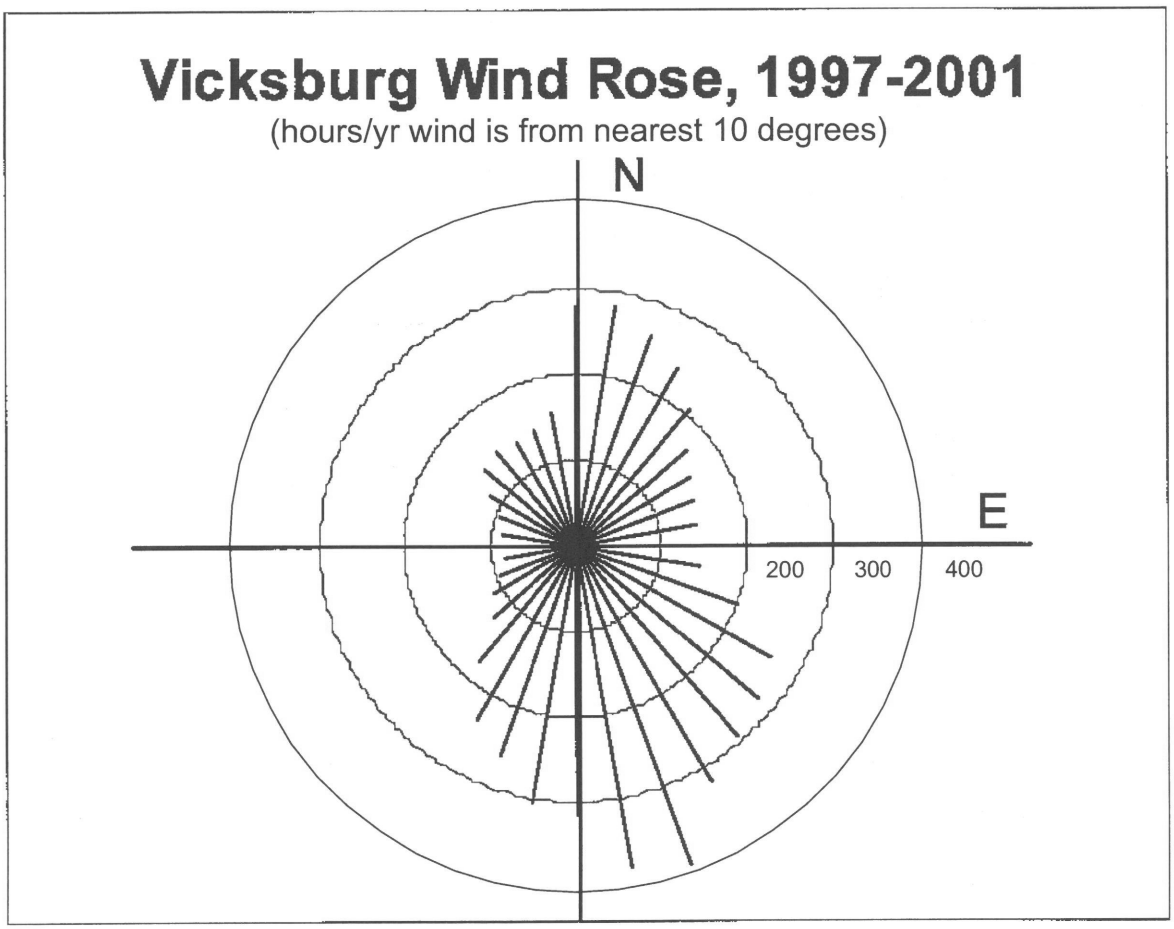
FIGURE 2.7-7 REV. 1

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EARLY SITE PERMIT APPLICATION
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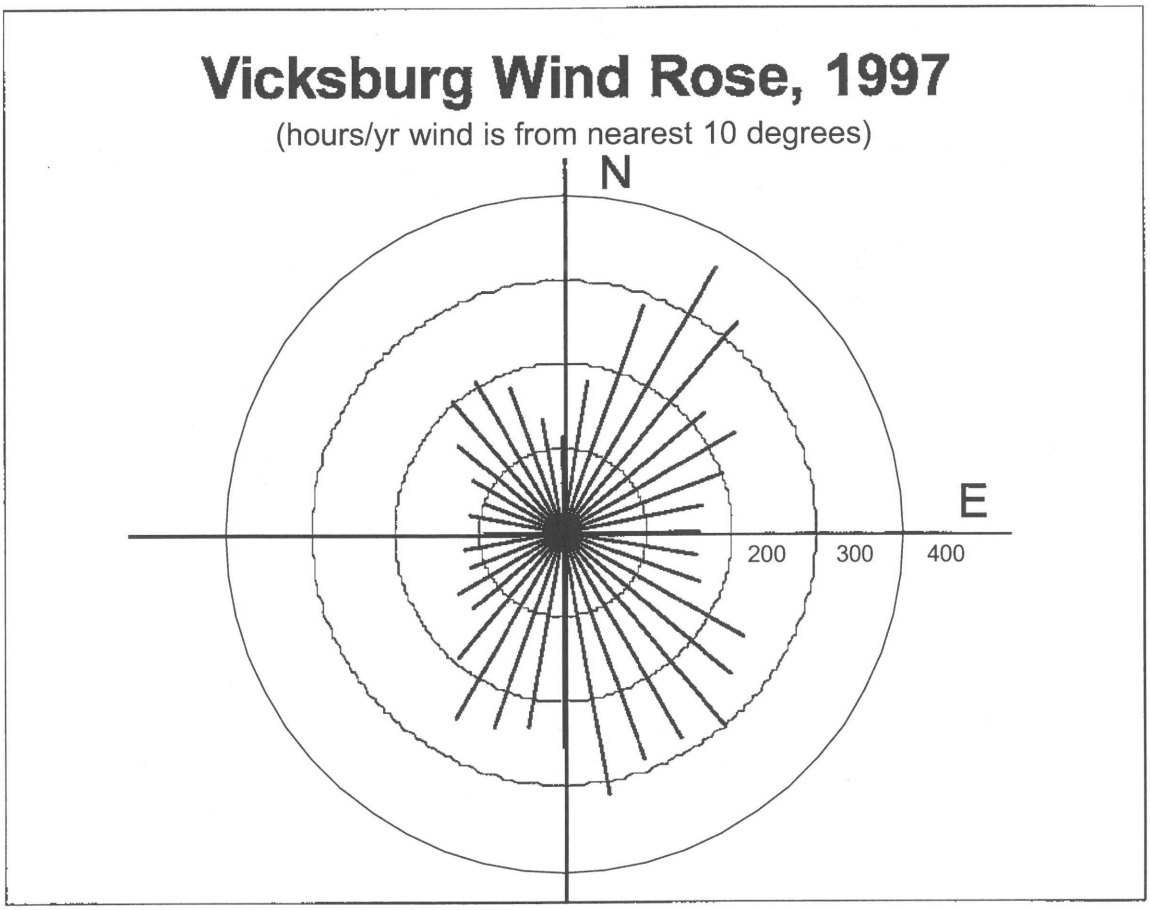
VICKSBURG WIND ROSE,
1997-2001

FIGURE 2.7-8 REV. 1

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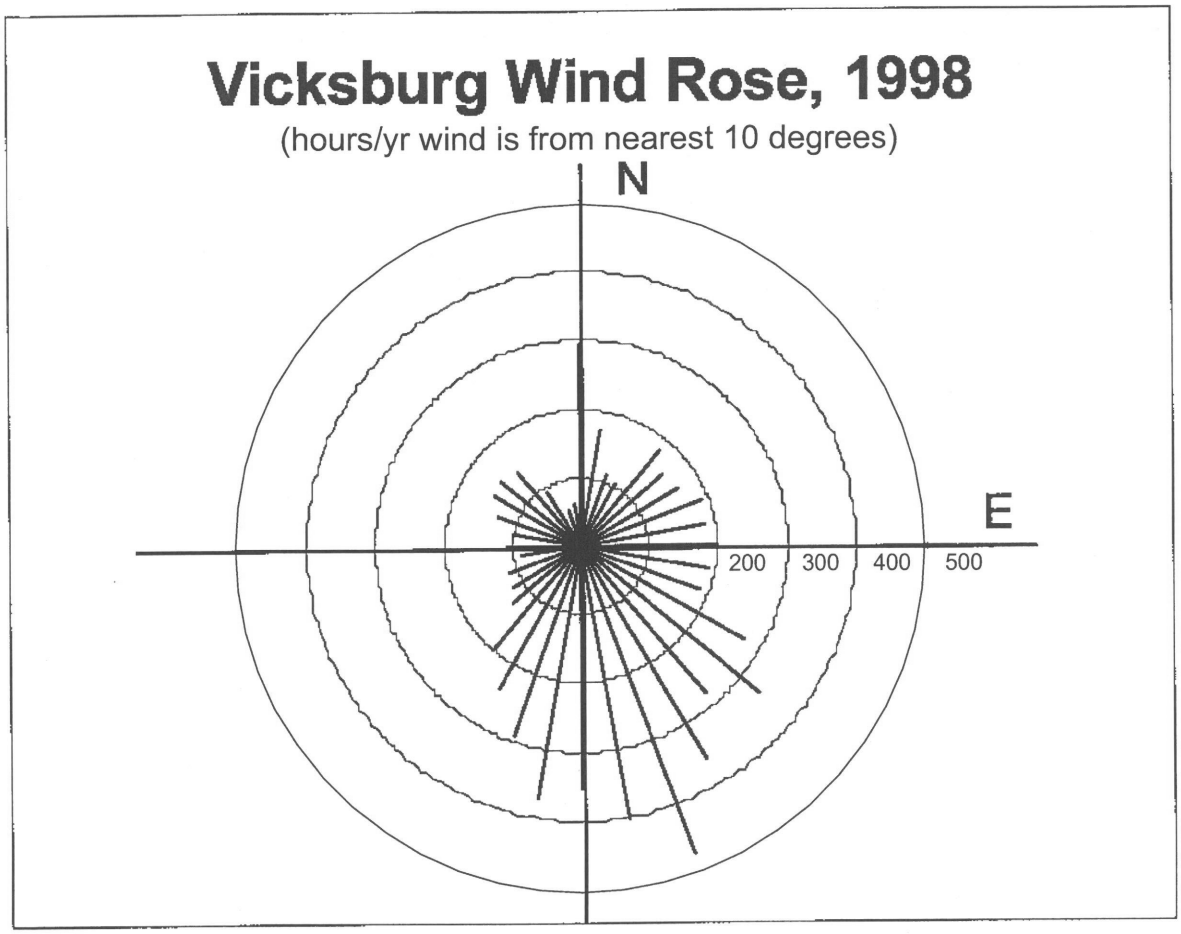
ENVIRONMENTAL REPORT

VICKSBURG WIND ROSE,
1997

FIGURE 2.7-9 REV. 1

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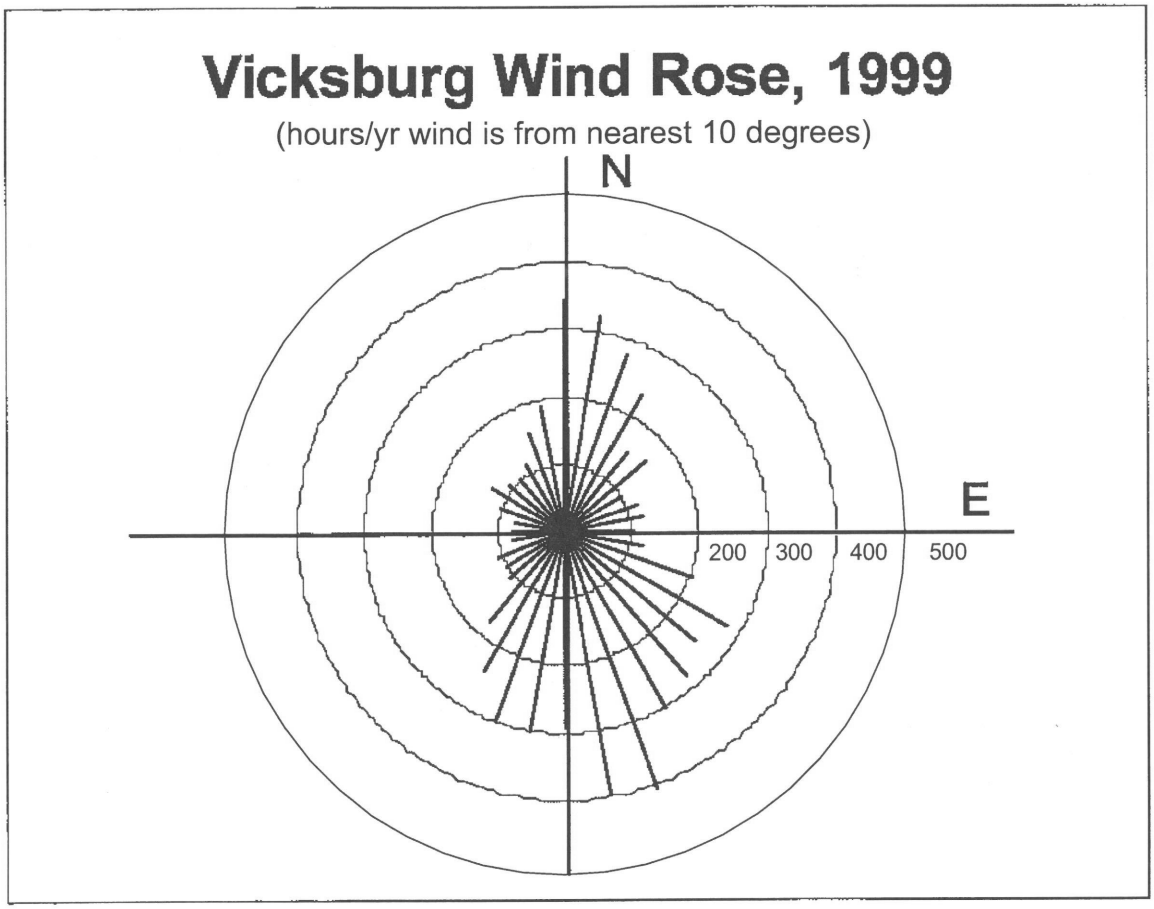
ENVIRONMENTAL REPORT

VICKSBURG WIND ROSE,
1998

FIGURE 2.7-10 REV. 1

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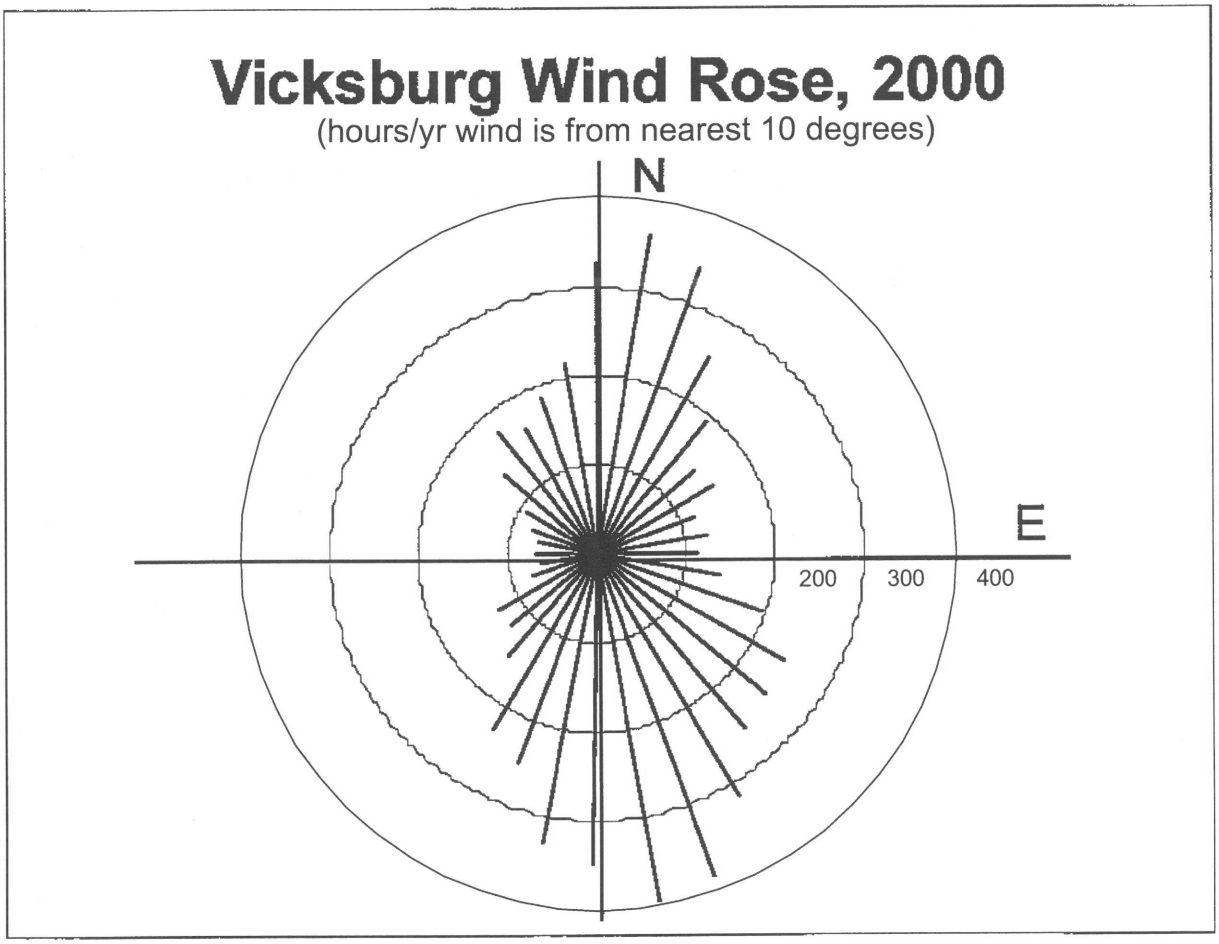
VICKSBURG WIND ROSE,
1999

FIGURE 2.7-11 REV. 1

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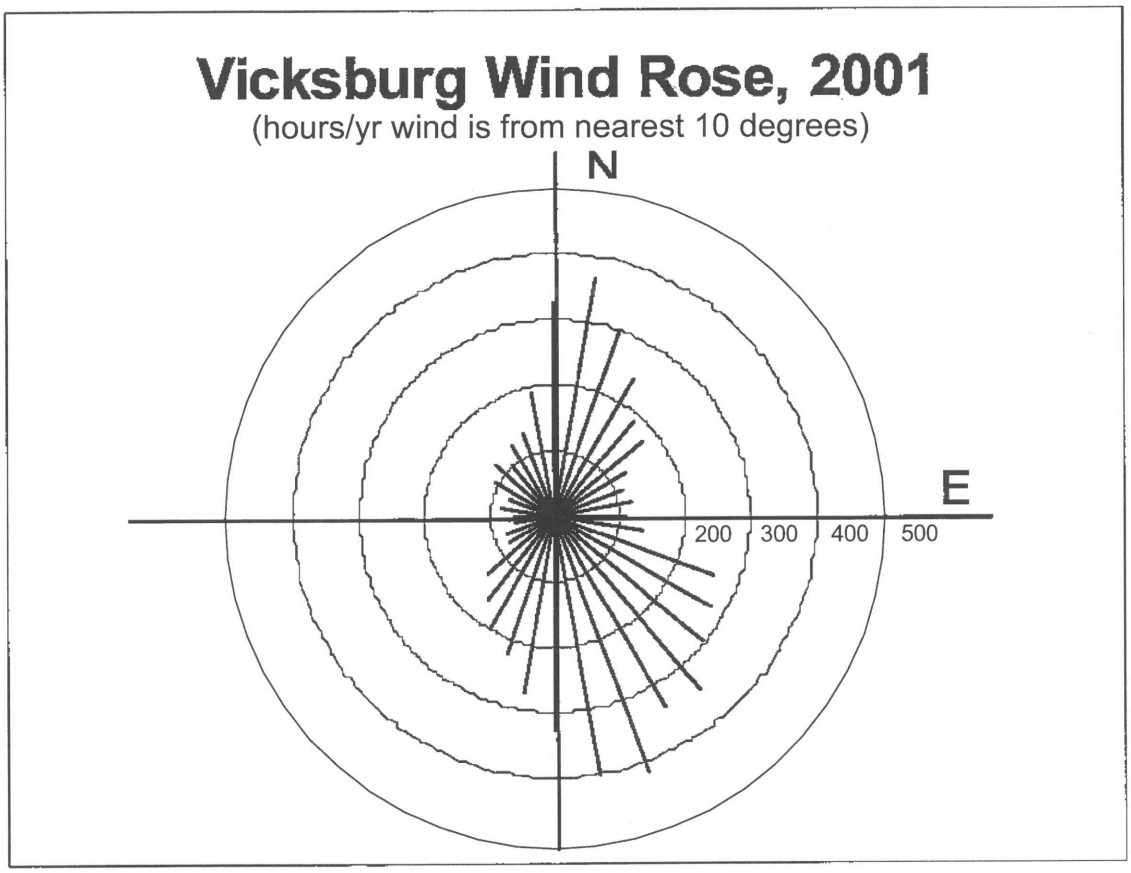
VICKSBURG WIND ROSE,
2000

FIGURE 2.7-12 REV. 1

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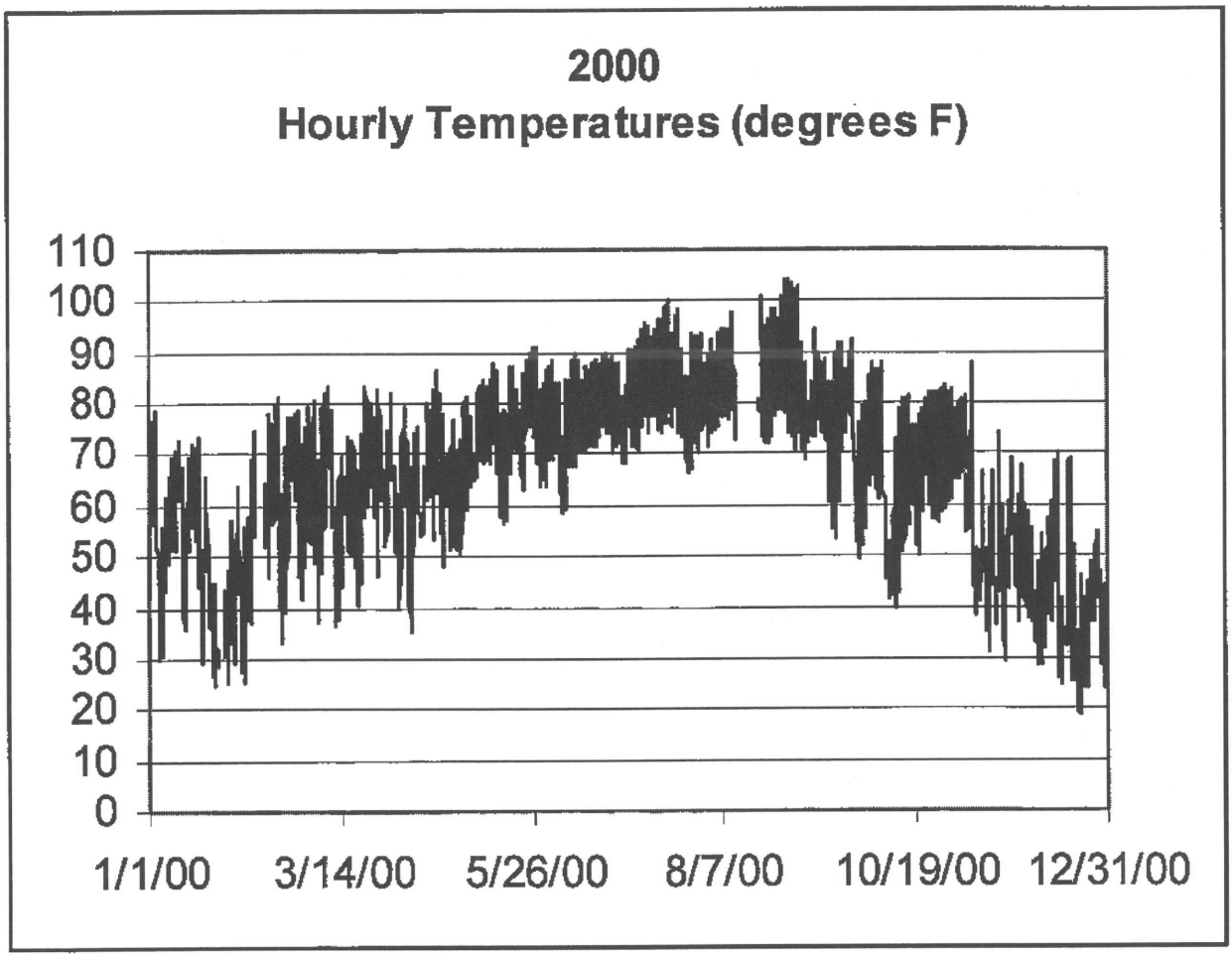
EARLY SITE PERMIT APPLICATION
ENVIRONMENTAL REPORT

VICKSBURG WIND ROSE,
2001

FIGURE 2.7-13 REV. 1

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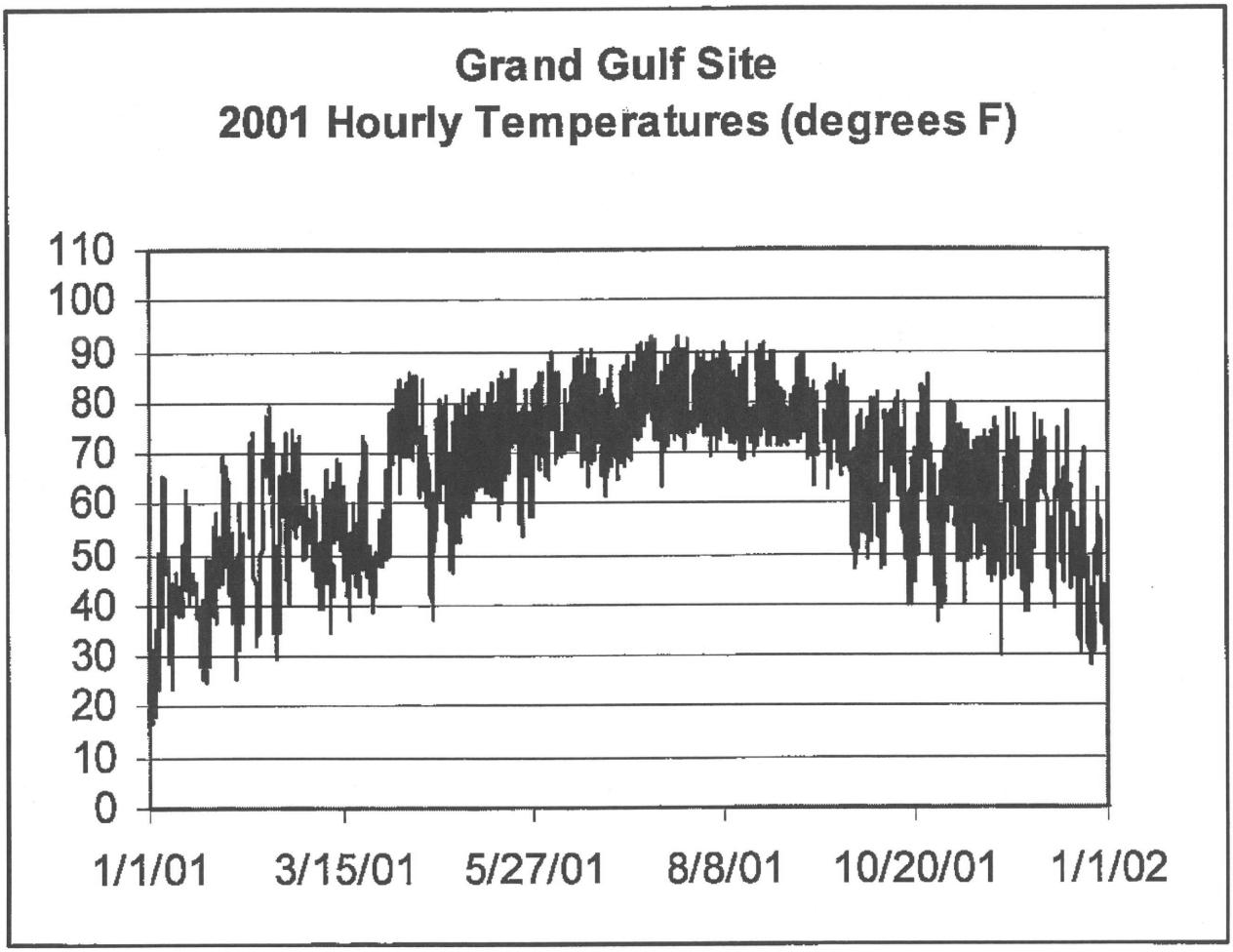
ENVIRONMENTAL REPORT

GGNS SITE 2000
HOURLY TEMPERATURES
(DEGREES F)

FIGURE 2.7-14 REV. 1

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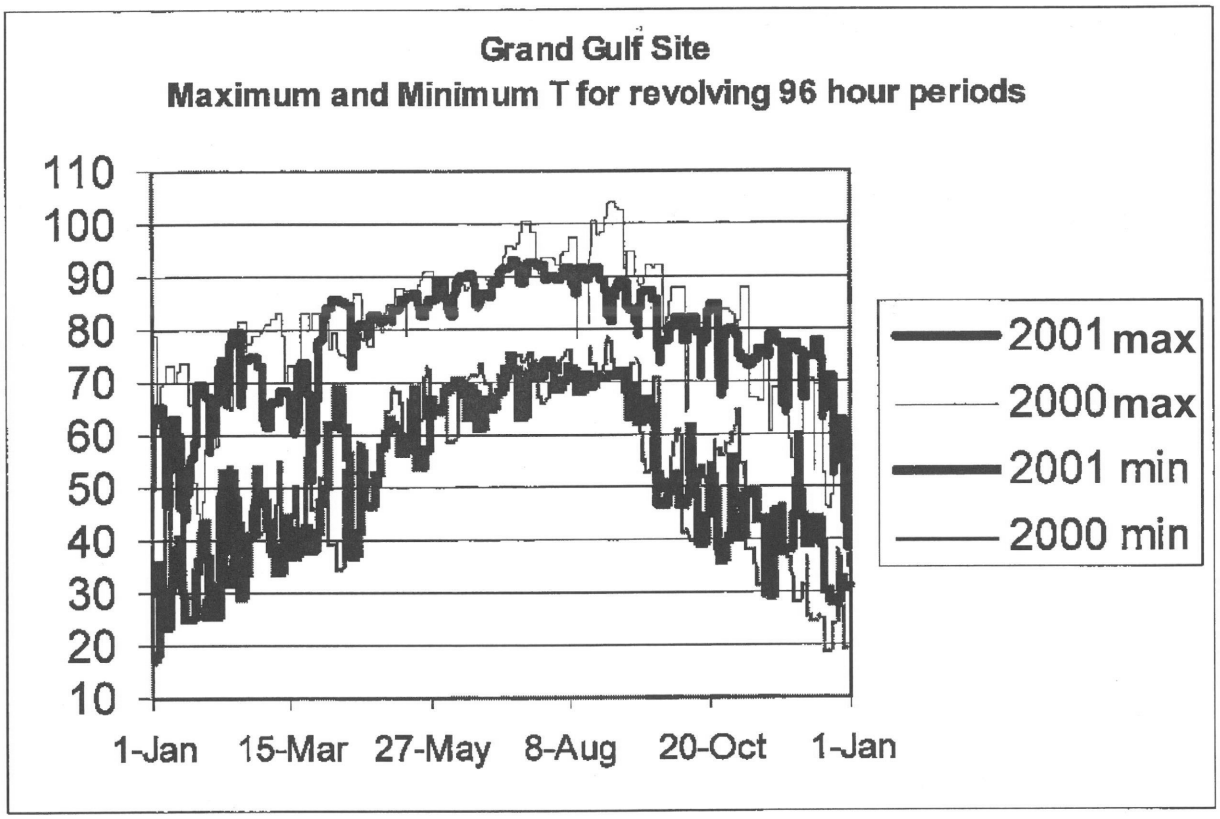
EARLY SITE PERMIT APPLICATION
ENVIRONMENTAL REPORT

GGNS SITE 2001
HOURLY TEMPERATURES
(DEGREES F)

FIGURE 2.7-15 REV. 1

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EARLY SITE PERMIT APPLICATION
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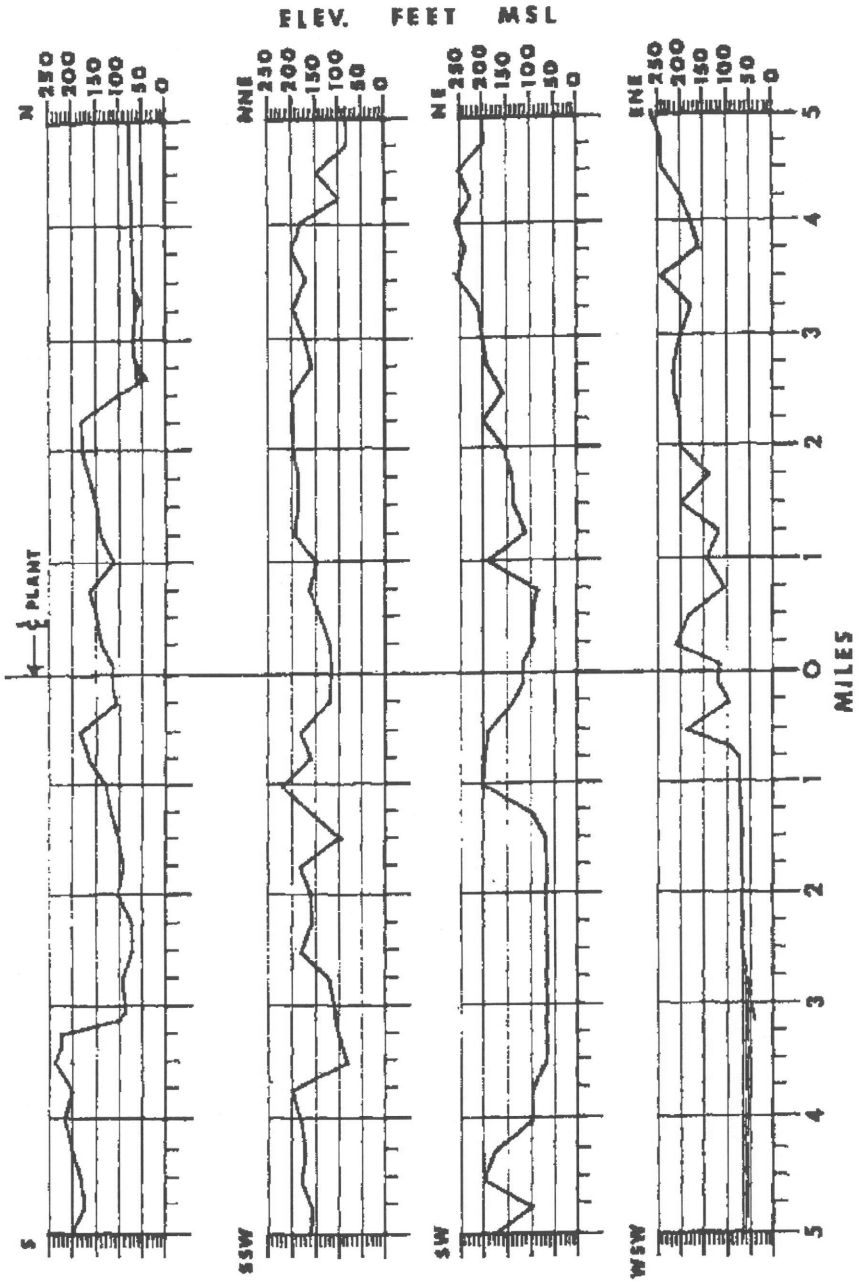
GGNS SITE
MAXIMUM AND MINIMUM TEMPERATURE
FOR REVOLVING 96 HOUR PERIODS

FIGURE 2.7-16 REV. 1

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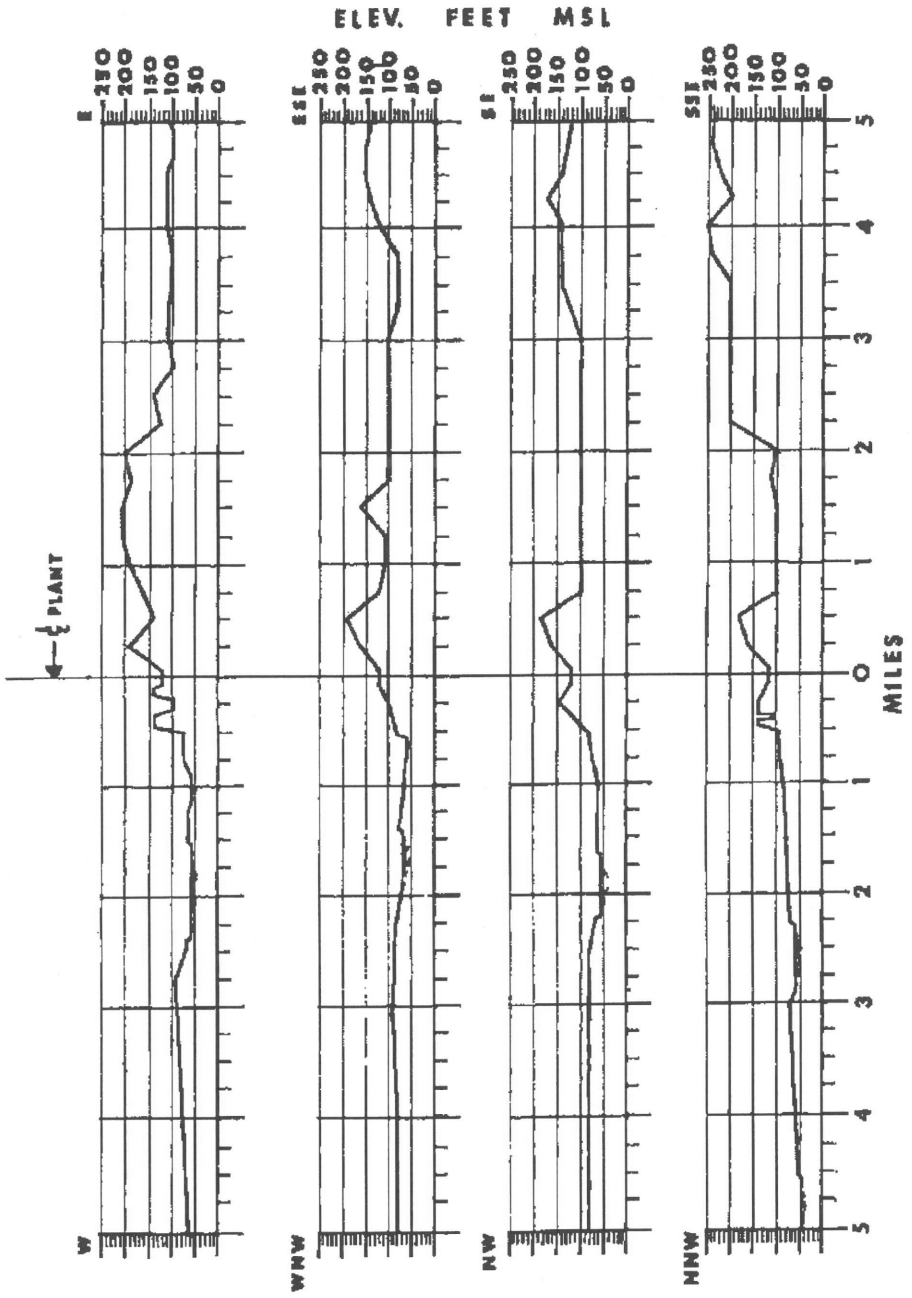
TOPOGRAPHIC PROFILES
(UFSAR FIGURE 2.3-8)

FIGURE 2.7-17 REV. 1

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ENVIRONMENTAL REPORT

TOPOGRAPHIC PROFILES
(UFSAR FIGURE 2.3-9)

FIGURE 2.7-18 REV. 1

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EARLY SITE PERMIT APPLICATION
ENVIRONMENTAL REPORT

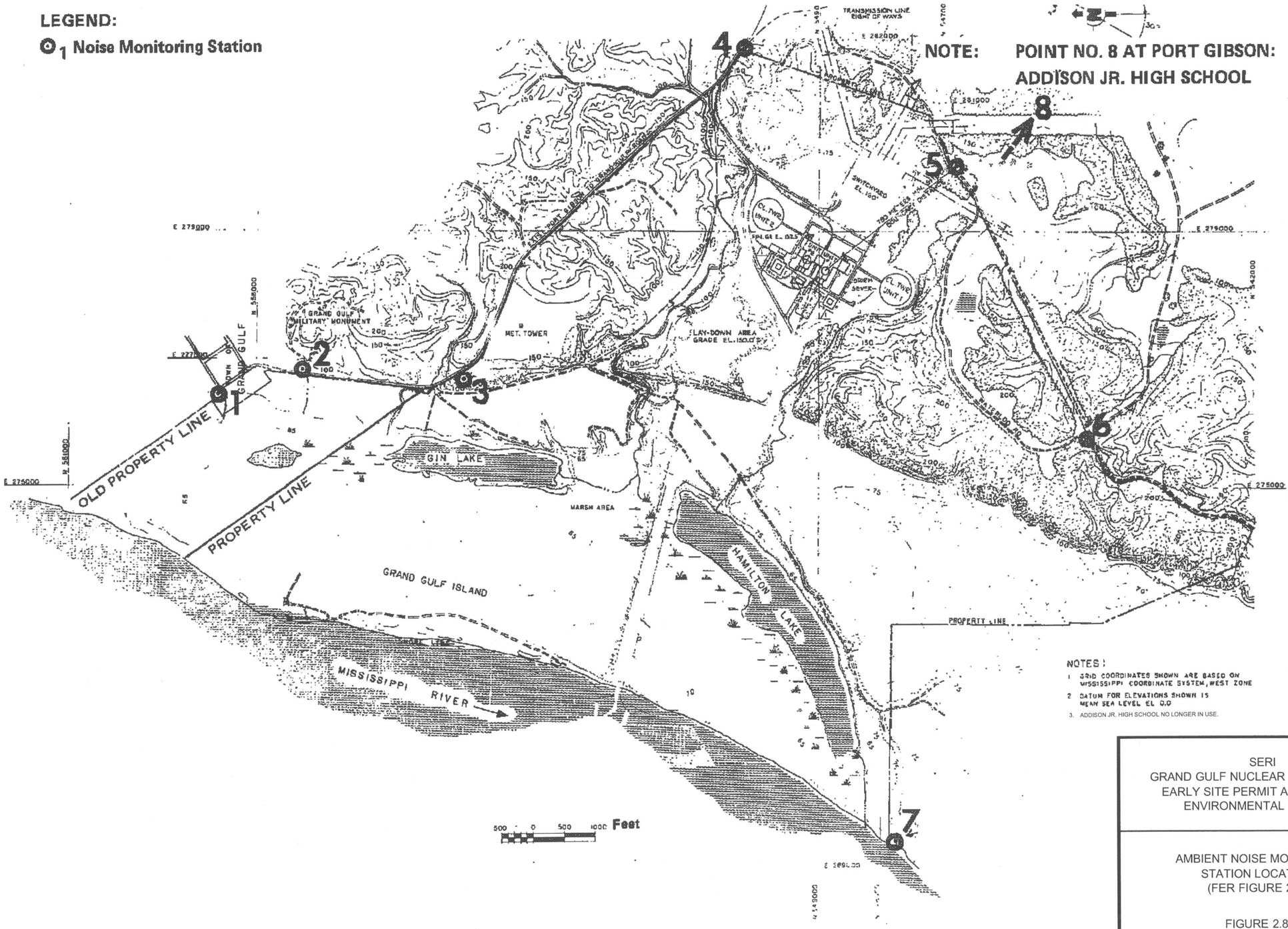
TOPOGRAPHIC PLAN OF AREA
WITHIN 5 AND 10 MILES OF PLANT
(UFSAR FIGURE 2.3-10)

FIGURE 2.7-19 REV. 1

LEGEND:

⊙1 Noise Monitoring Station

NOTE: POINT NO. 8 AT PORT GIBSON: ADDISON JR. HIGH SCHOOL




NOTES:

1. GRID COORDINATES SHOWN ARE BASED ON MISSISSIPPI COORDINATE SYSTEM, WEST ZONE
2. DATUM FOR ELEVATIONS SHOWN IS MEAN SEA LEVEL EL 0.0
3. ADDISON JR. HIGH SCHOOL NO LONGER IN USE.

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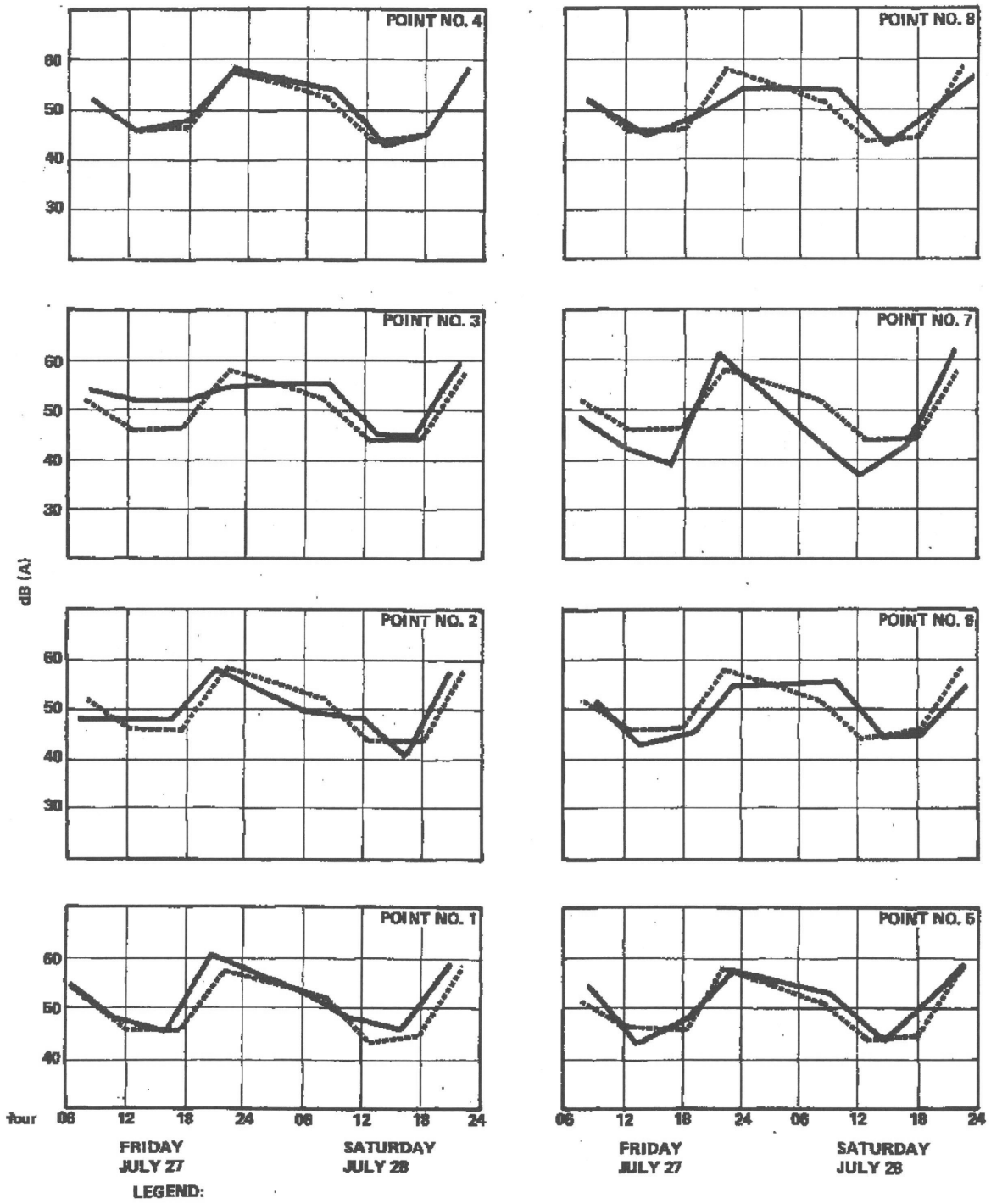
ENVIRONMENTAL REPORT

AMBIENT NOISE MONITORING
STATION LOCATIONS
(FER FIGURE 2.7-1)

FIGURE 2.8-1 REV. 1

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DIEL VARIATION dB(A)
BACKGROUND NOISE LEVEL
(FER FIGURE 2.7-2)

FIGURE 2.8-2 REV. 1