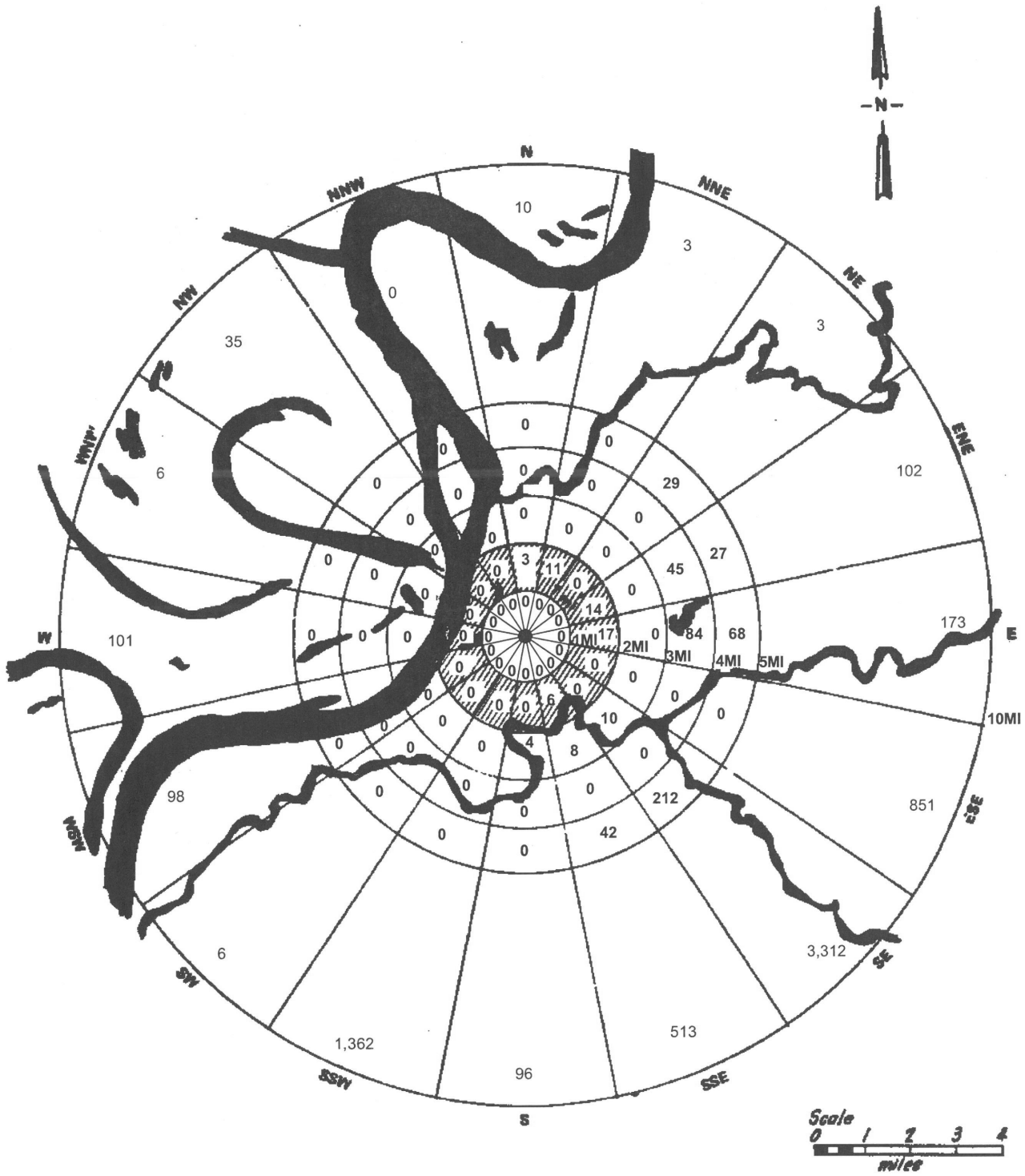
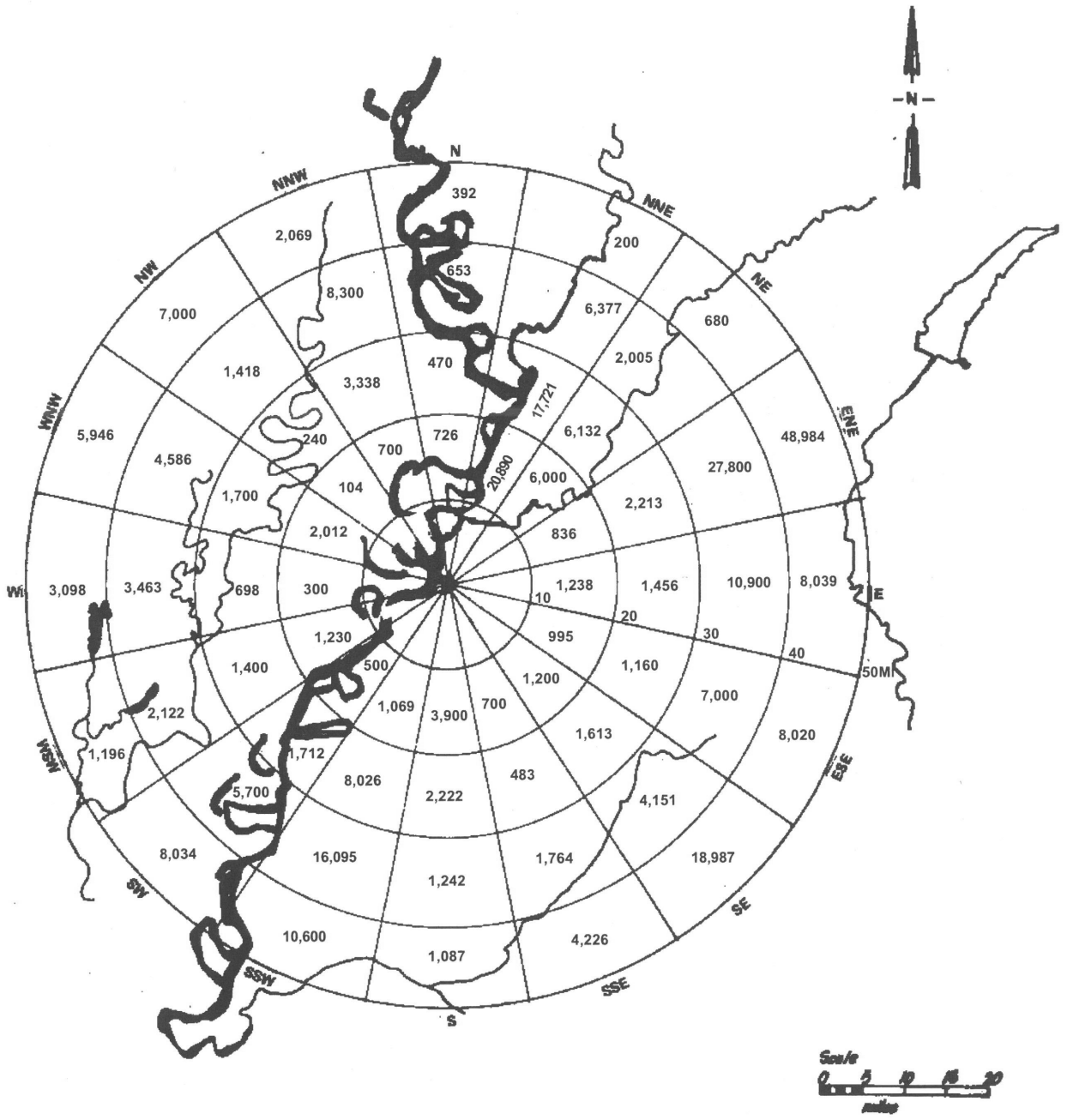


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GRAND GULF NUCLEAR STATION SITE
EARLY SITE PERMIT APPLICATION
ENVIRONMENTAL REPORT

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

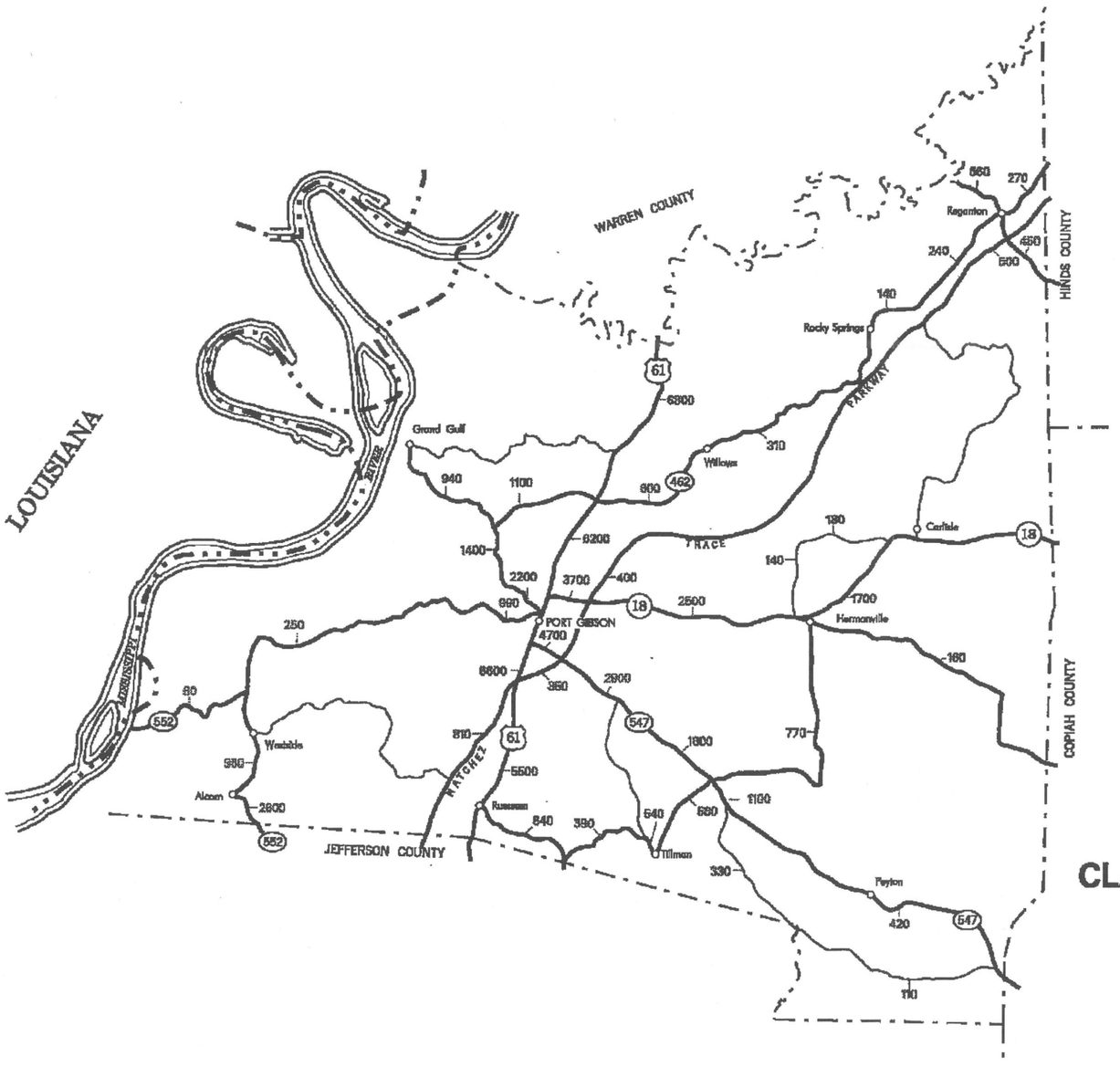
FIGURE 2.5-1 REV. 1



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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

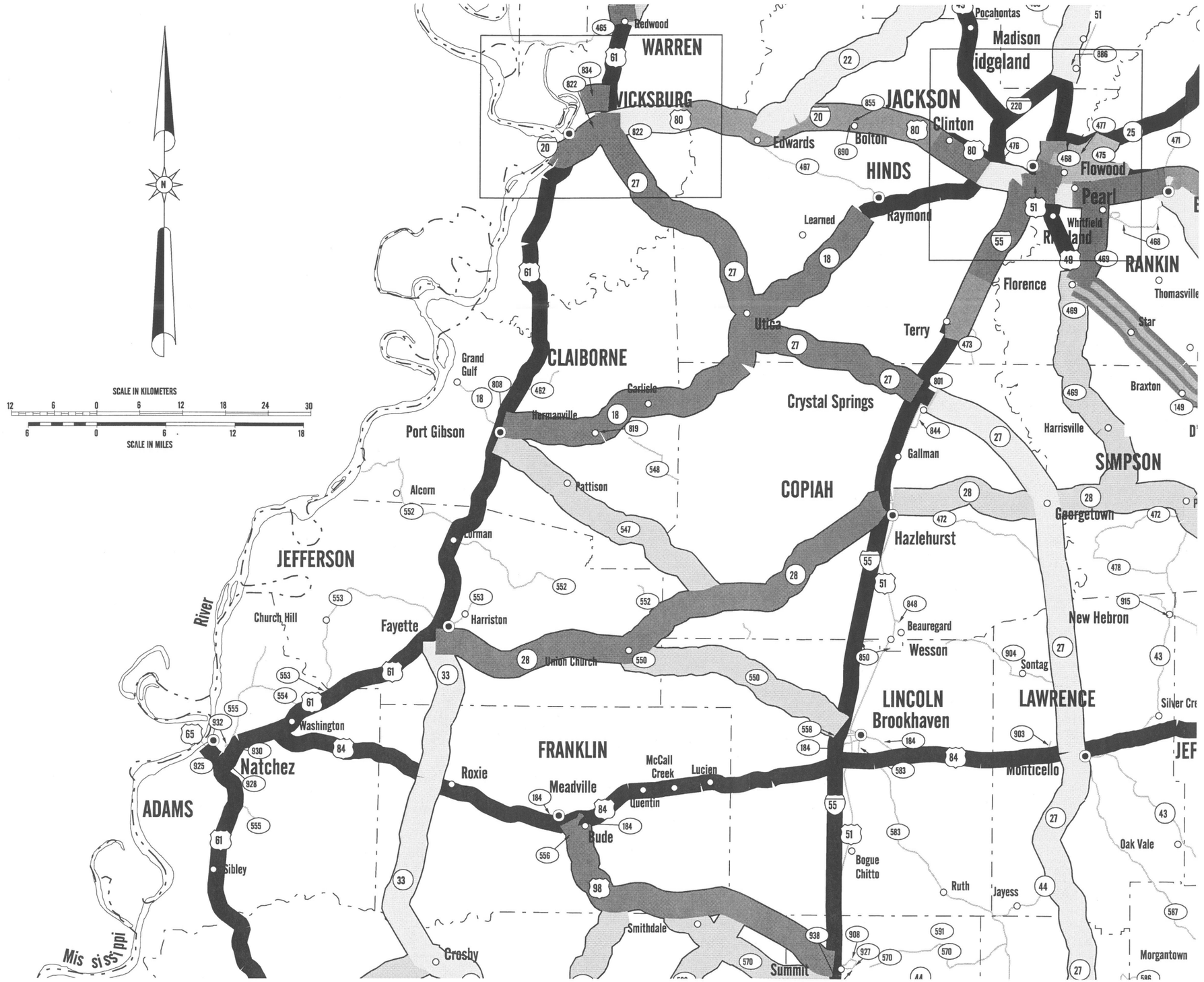
CLAIBORNE COUNTY 11

CLAIBORNE COUNTY 11

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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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MISSISSIPPI DOT ROADWAY
DEVELOPMENT PRIORITY

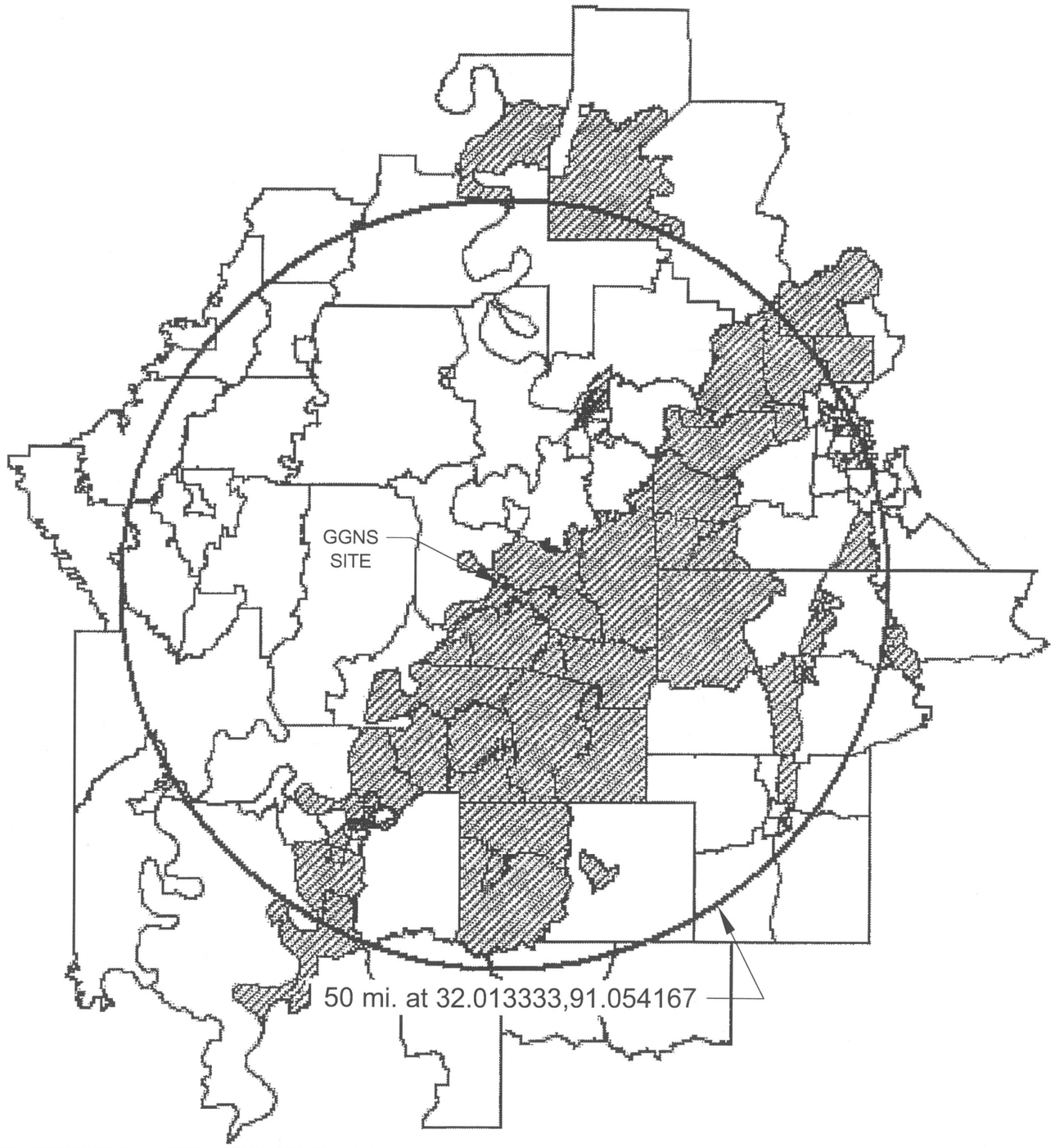
FIGURE 2.5-4 REV. 1



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HISTORIC RESOURCE LOCATIONS
IN GGNS SITE VICINITY

FIGURE 2.5-5 REV. 1



LEGEND:

MINORITY POPULATION >50 %
OF TOTAL POPULATION

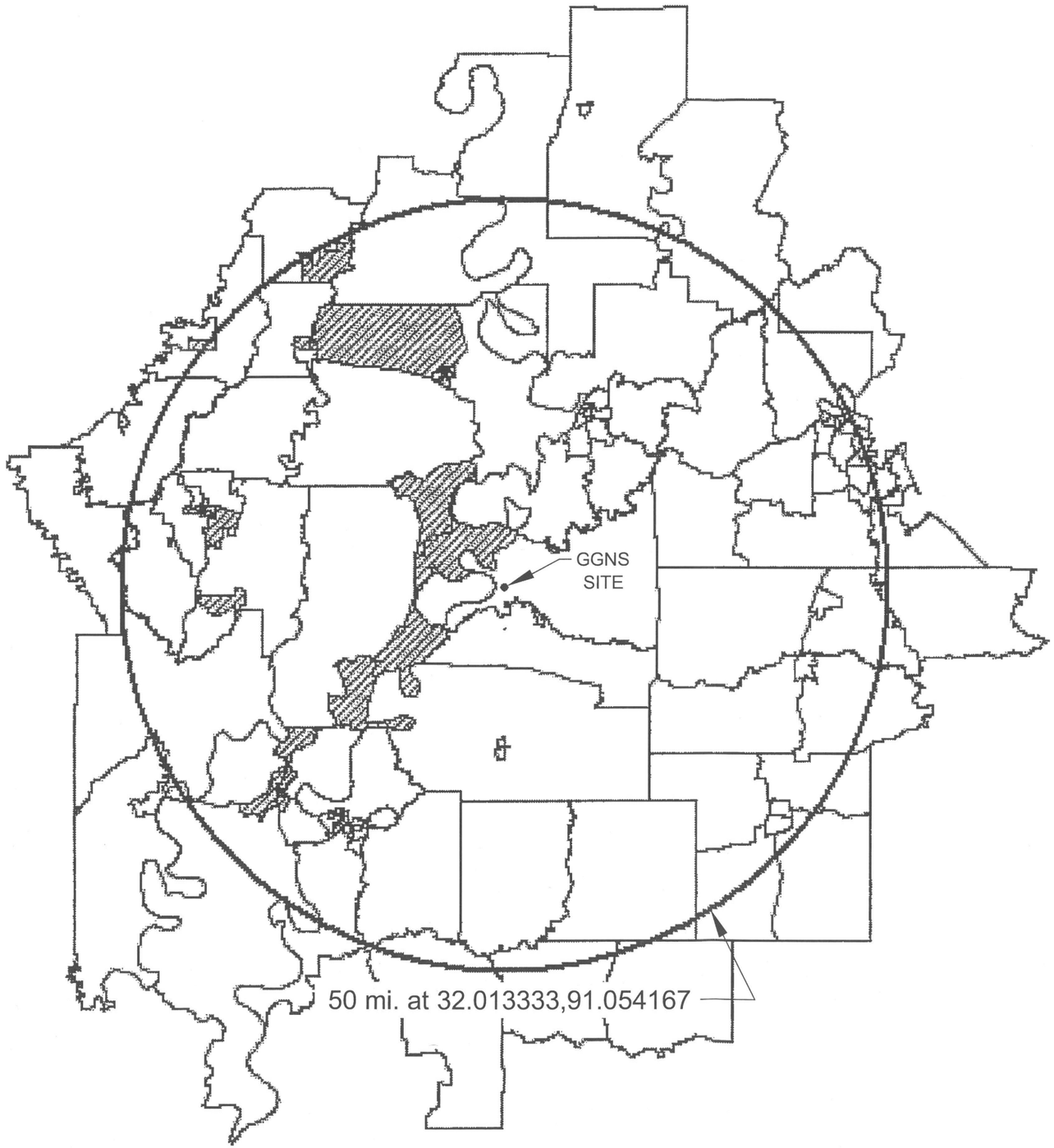
NOTES:

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

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MISSISSIPPI
MINORITY POPULATION MAP
FOR GGNS SITE REGION

FIGURE 2.5-6 REV. 1



LEGEND:

MINORITY POPULATION >50 %
OF TOTAL POPULATION

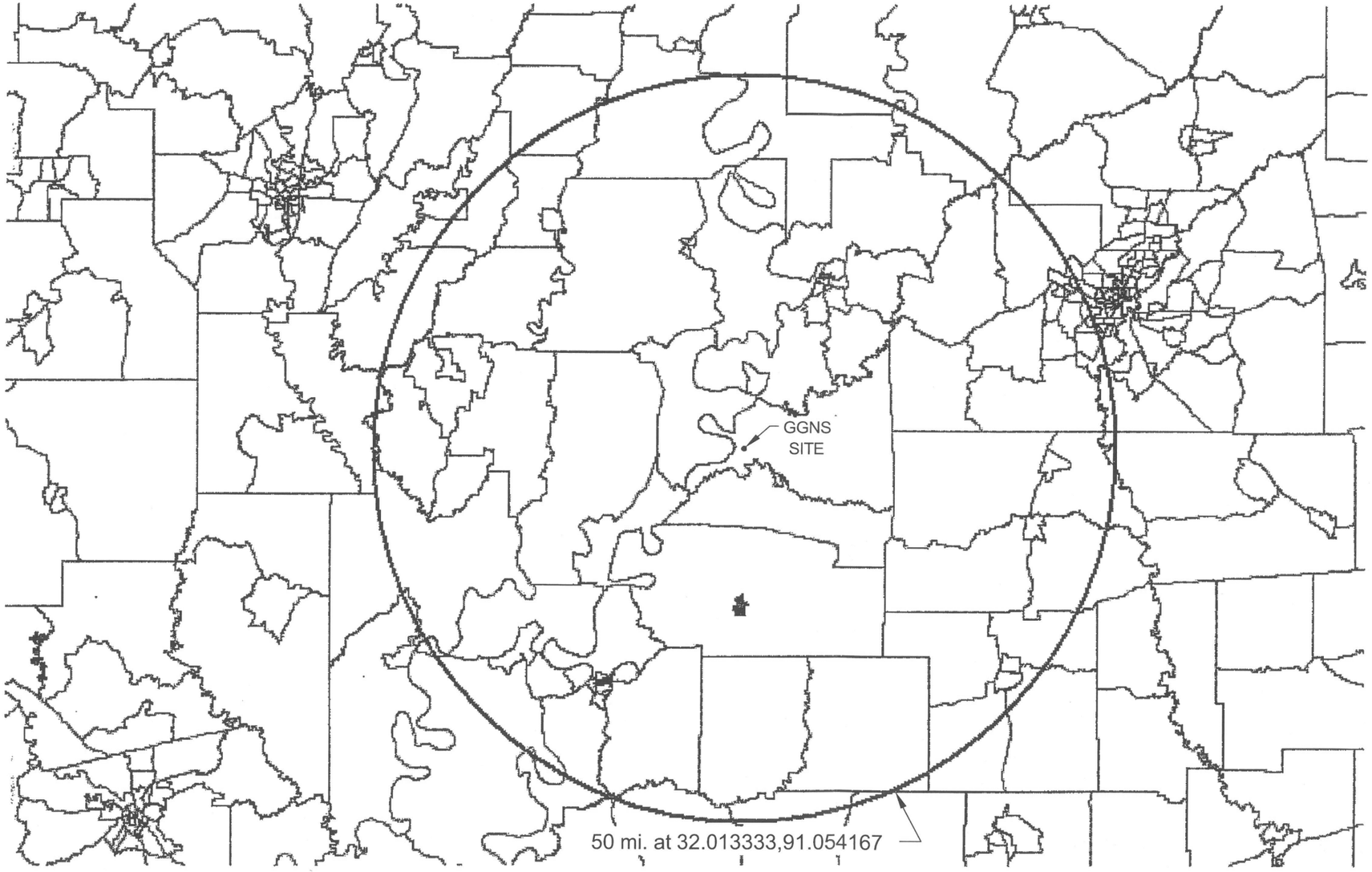
NOTES:

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

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LOUISIANA STATE
MINORITY POPULATION MAP
FOR GGNS SITE REGION

FIGURE 2.5-7 REV. 1



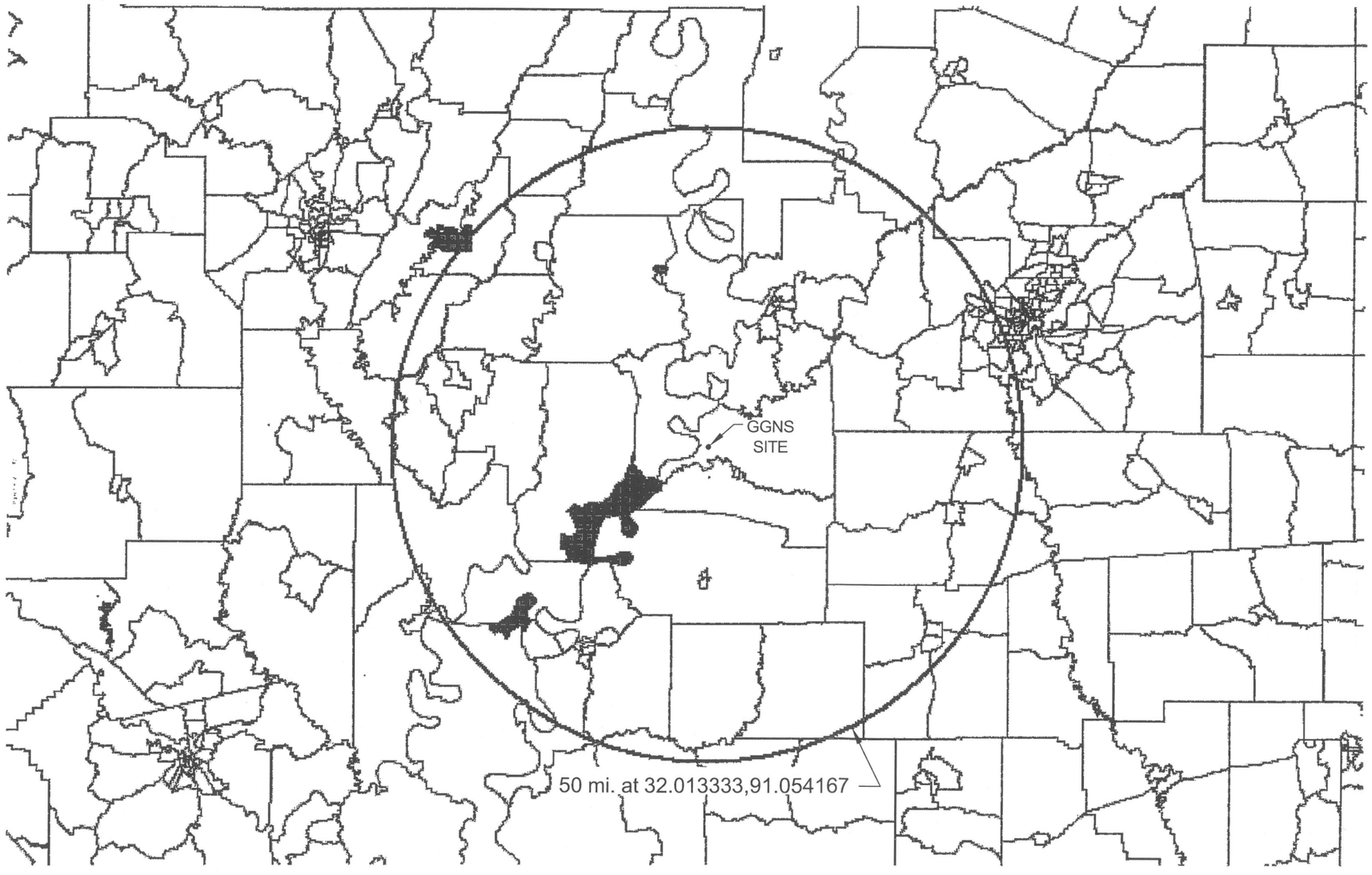
LEGEND:

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



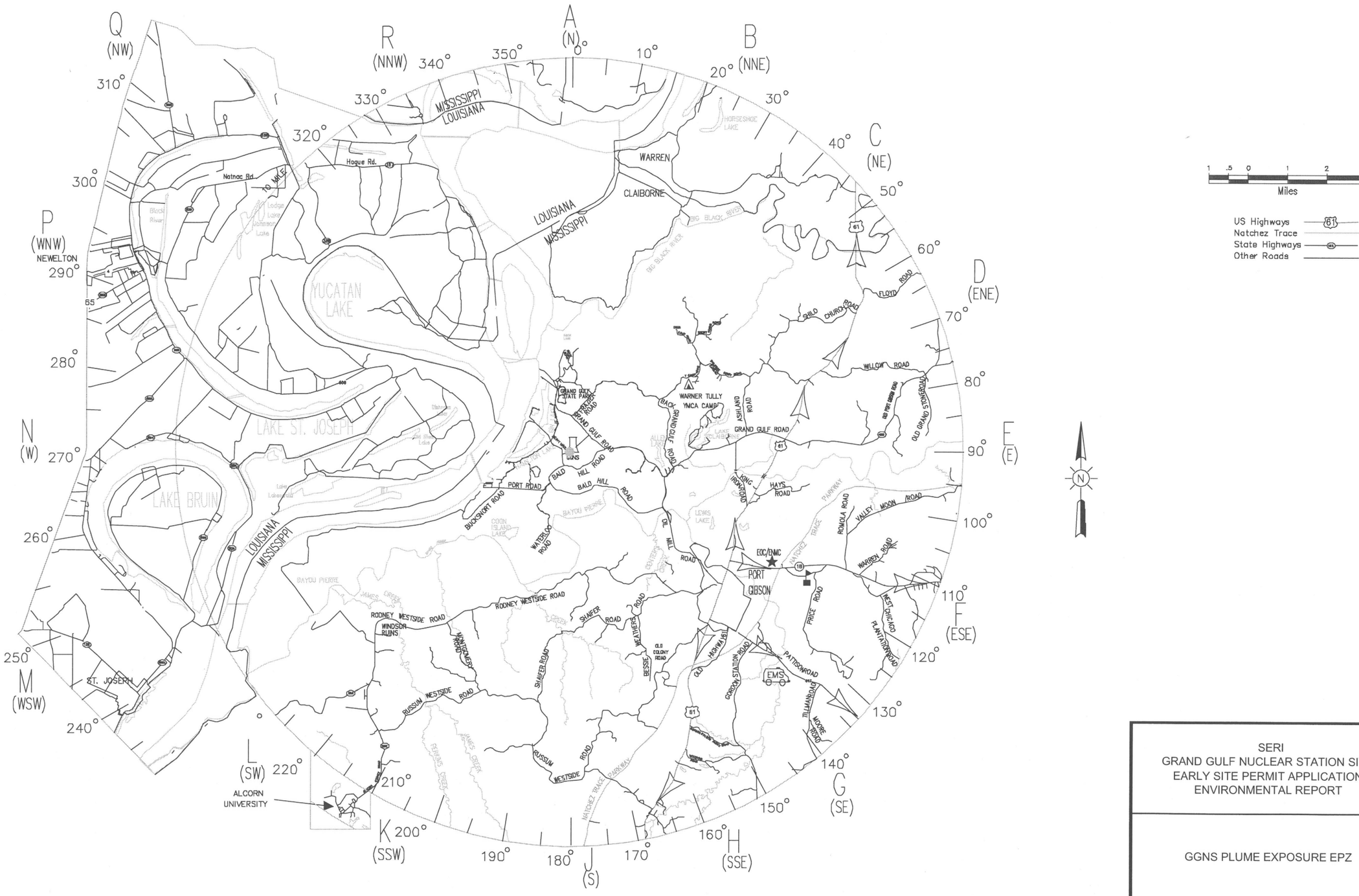
LEGEND:

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

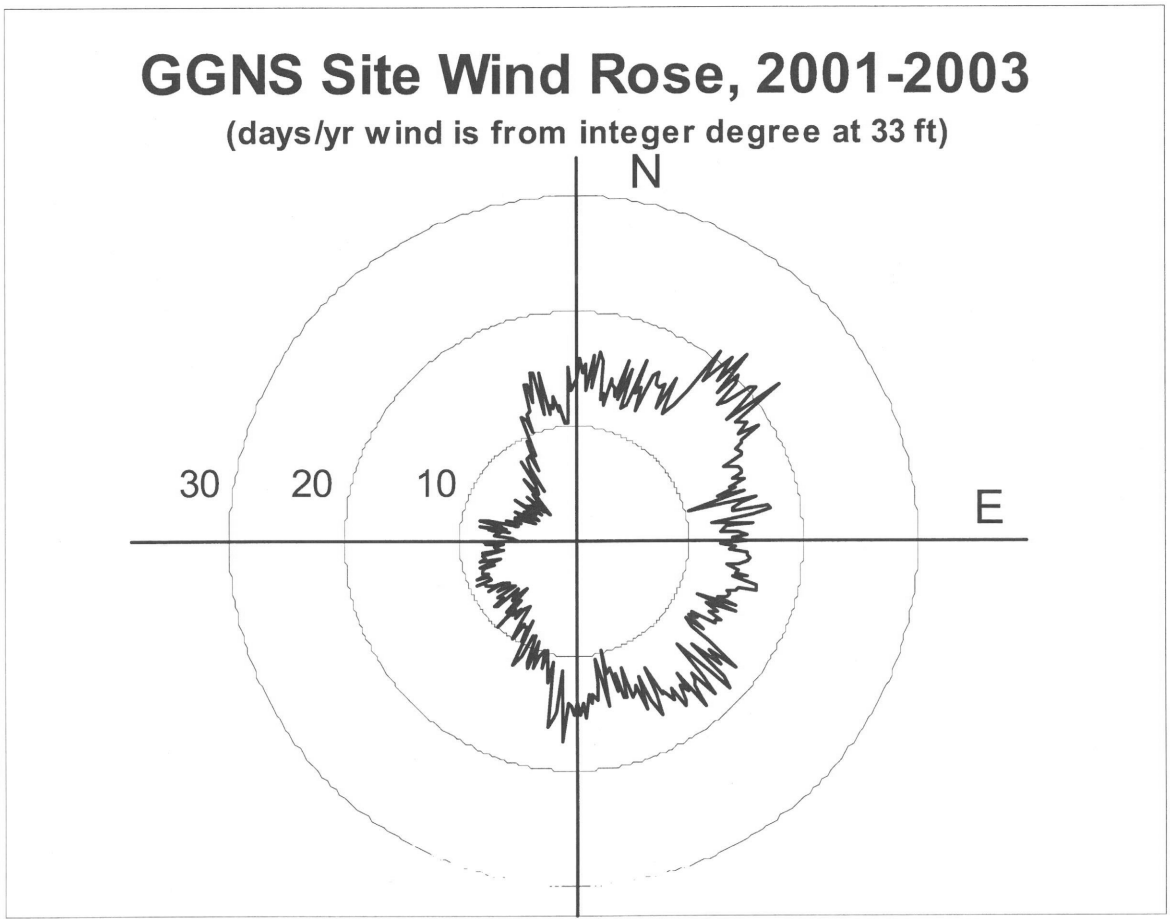
FIGURE 2.5-9 REV. 1



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ENVIRONMENTAL REPORT

GGNS PLUME EXPOSURE EPZ

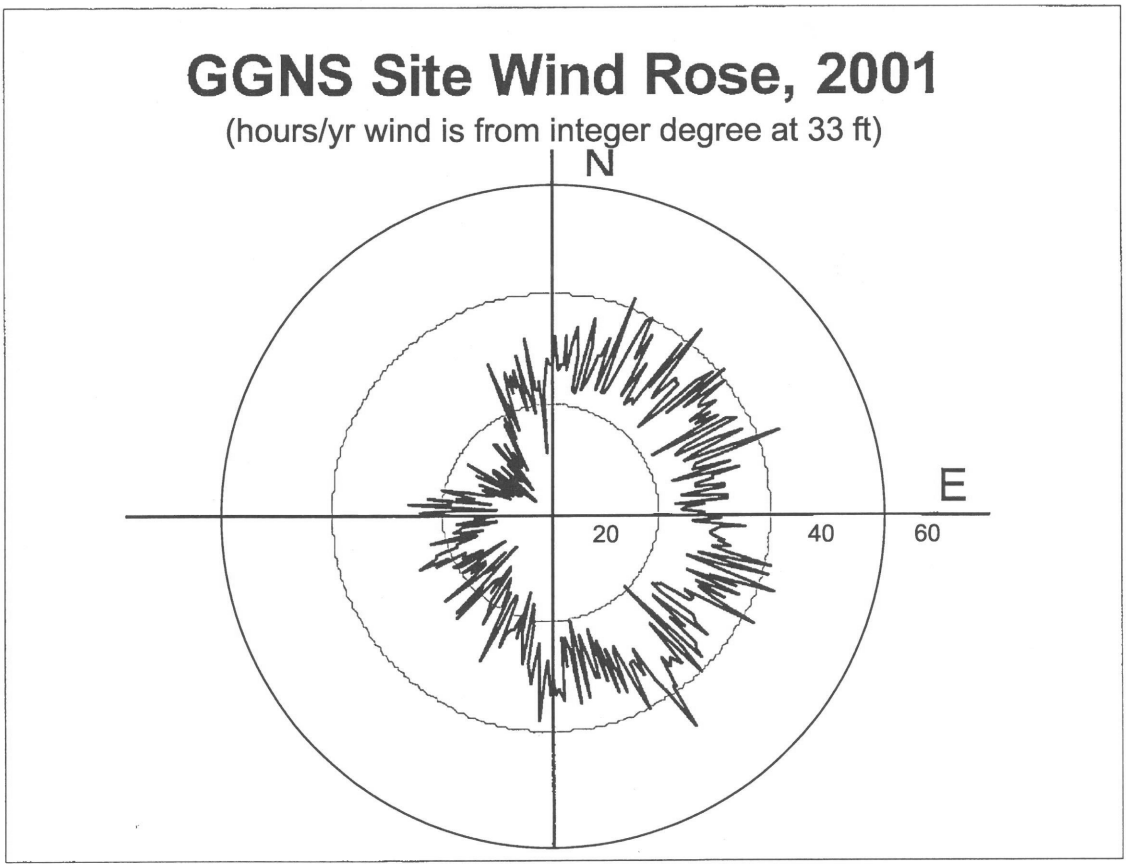
FIGURE 2.5-10 REV. 1



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GRAND GULF NUCLEAR STATION SITE
EARLY SITE PERMIT APPLICATION
ENVIRONMENTAL REPORT

GGNS SITE WIND ROSE,
2001-2003

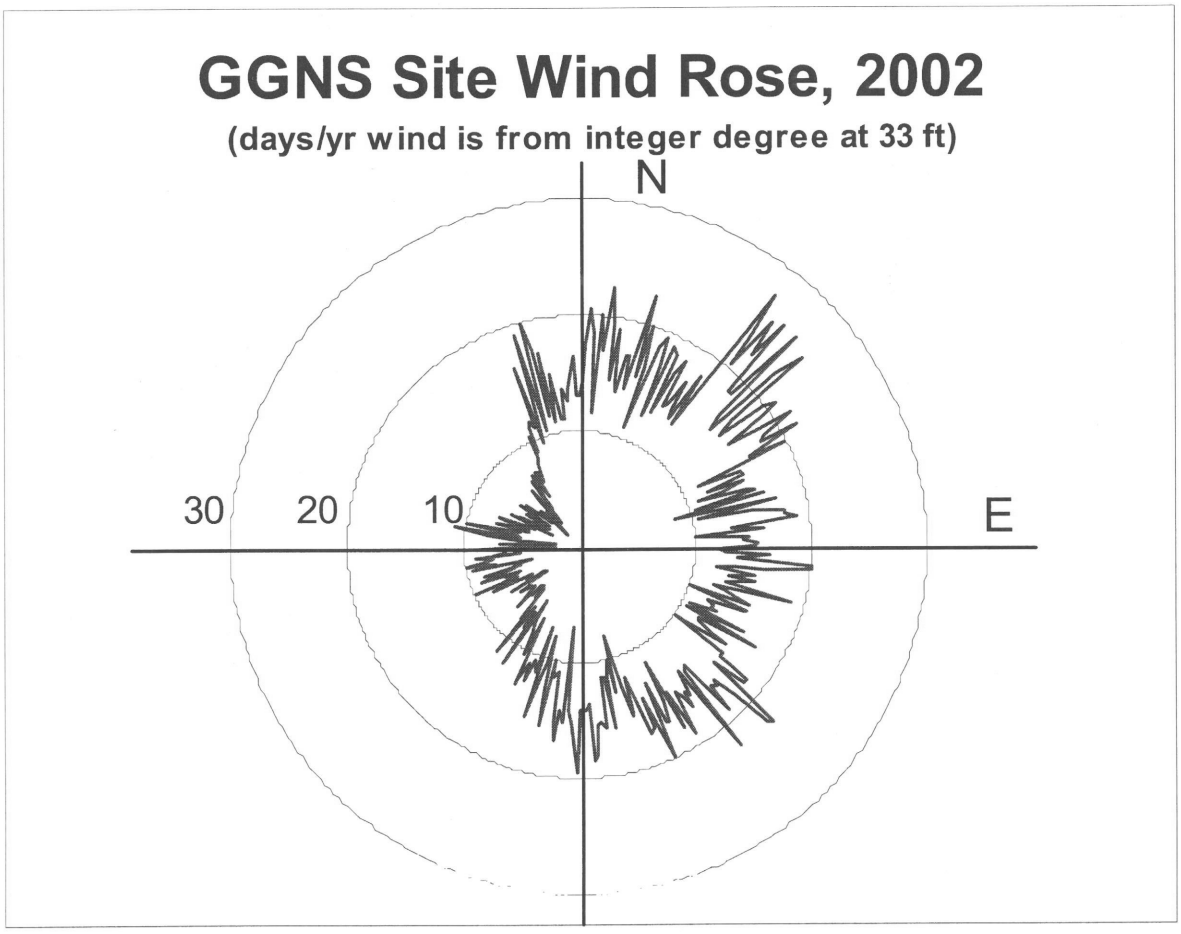
FIGURE 2.7-1 REV. 1



SERI
GRAND GULF NUCLEAR STATION SITE
EARLY SITE PERMIT APPLICATION
ENVIRONMENTAL REPORT

GGNS SITE WIND ROSE,
2001

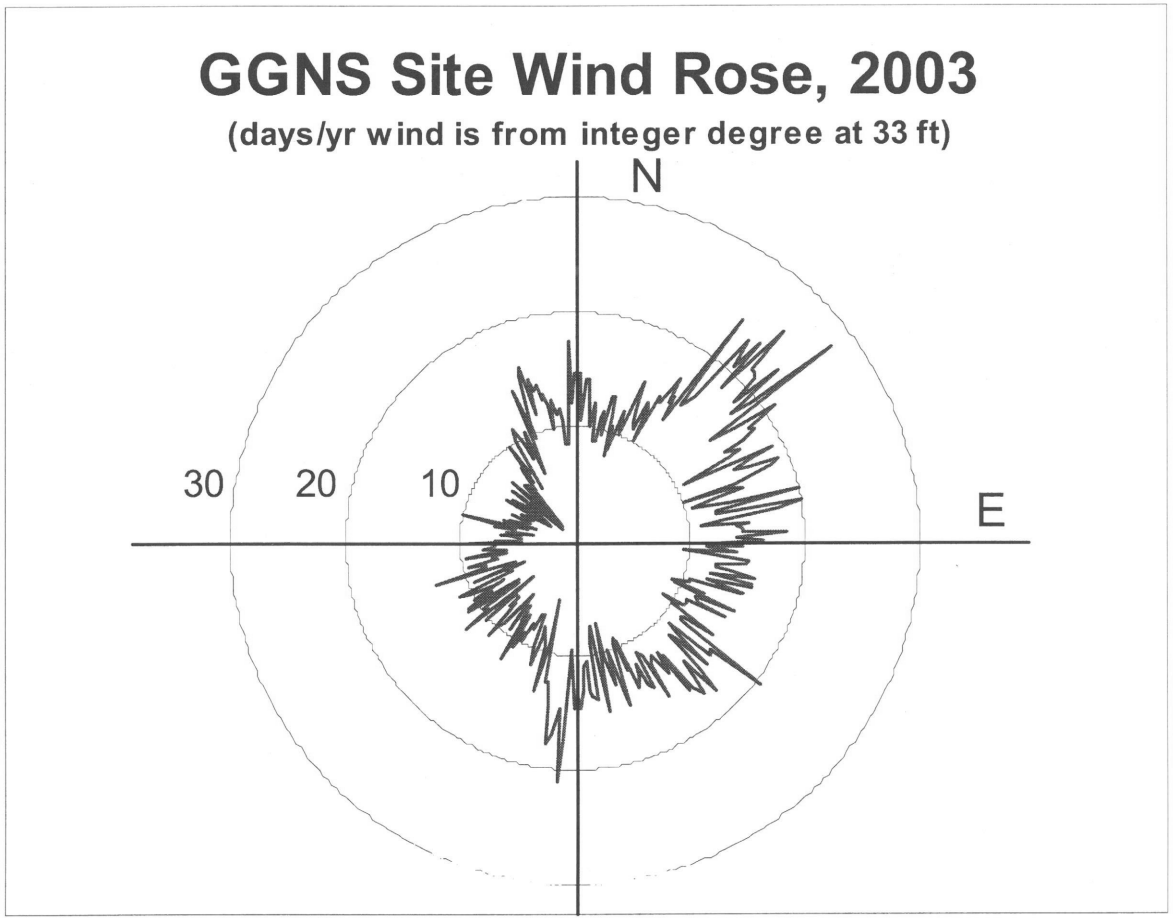
FIGURE 2.7-2 REV. 1



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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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ENVIRONMENTAL REPORT

FIGURE 2.7-5 REV. 1

DELETED

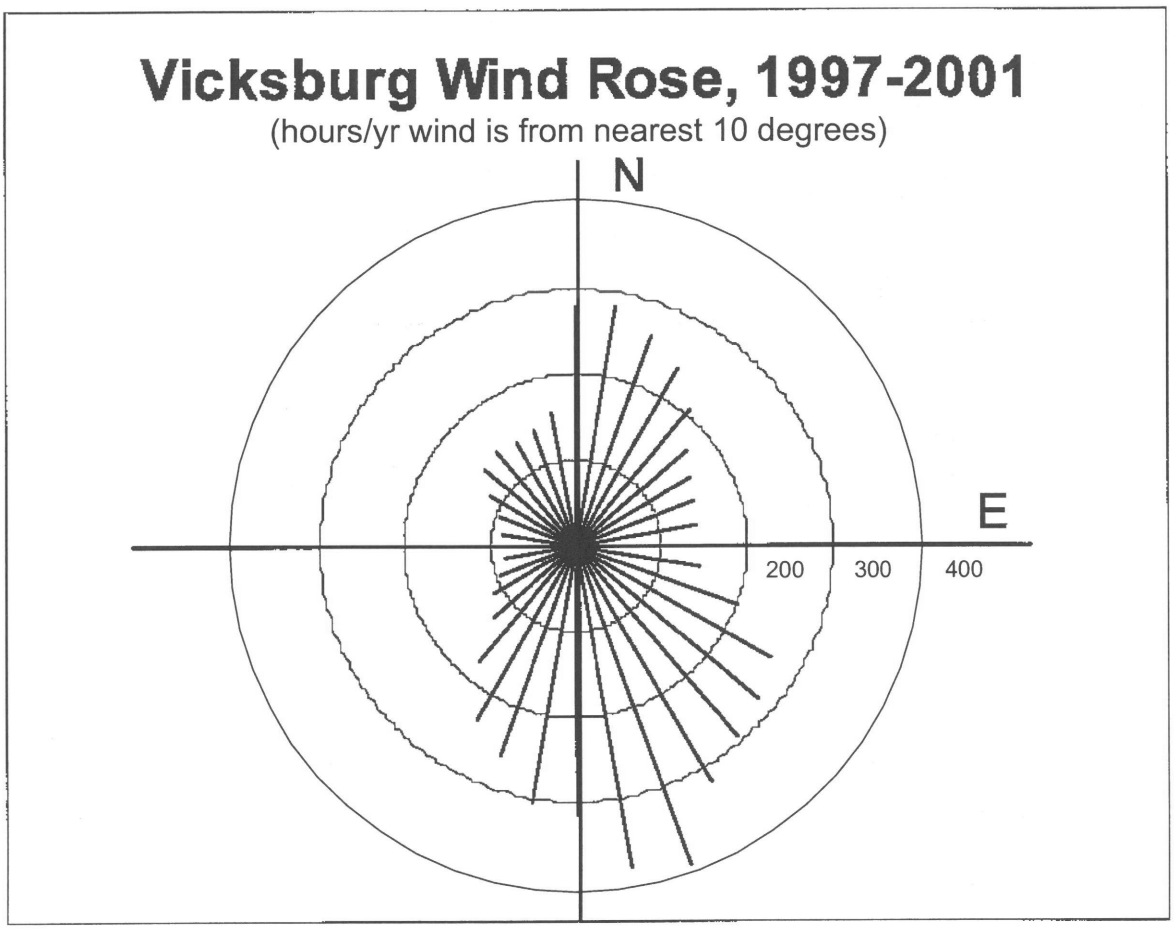
SERI
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EARLY SITE PERMIT APPLICATION
ENVIRONMENTAL REPORT

FIGURE 2.7-6 REV. 1

DELETED

SERI
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EARLY SITE PERMIT APPLICATION
ENVIRONMENTAL REPORT

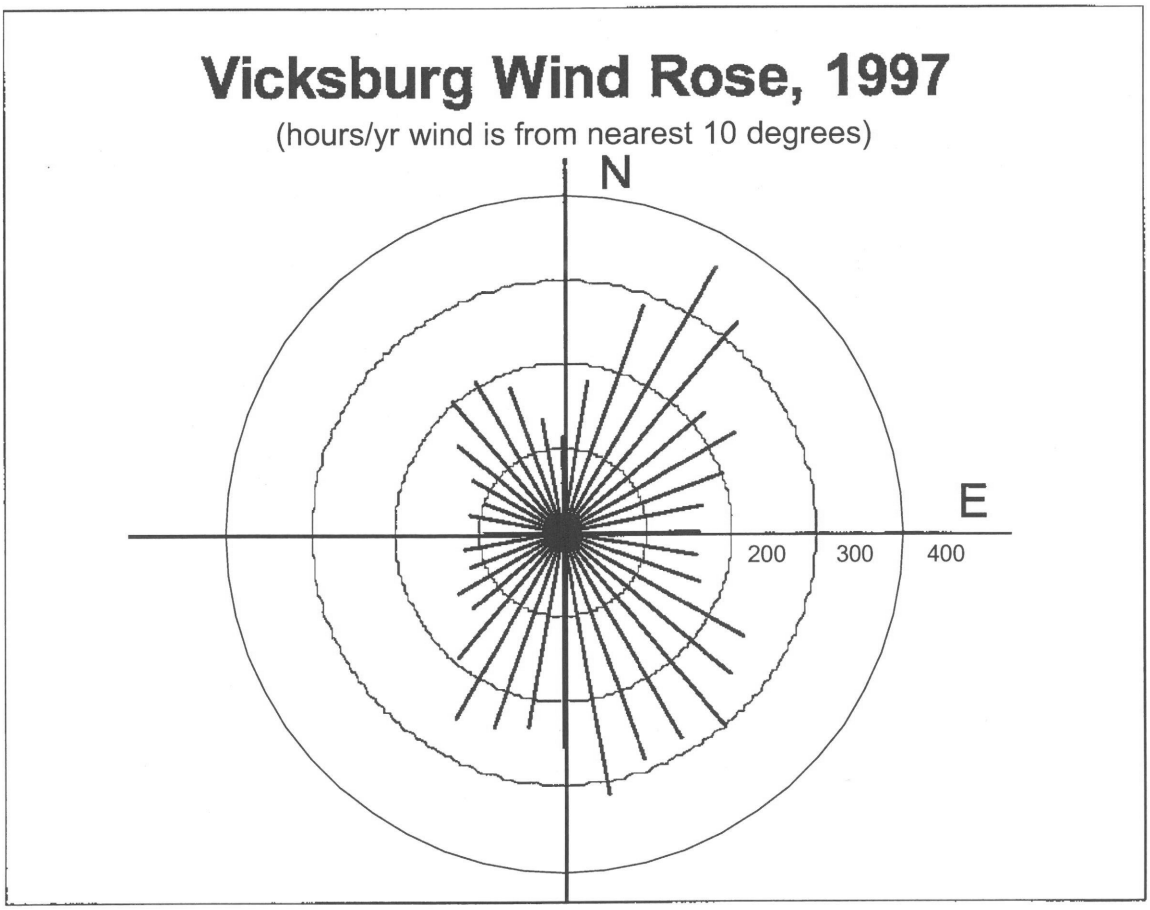
FIGURE 2.7-7 REV. 1



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EARLY SITE PERMIT APPLICATION
ENVIRONMENTAL REPORT

VICKSBURG WIND ROSE,
1997-2001

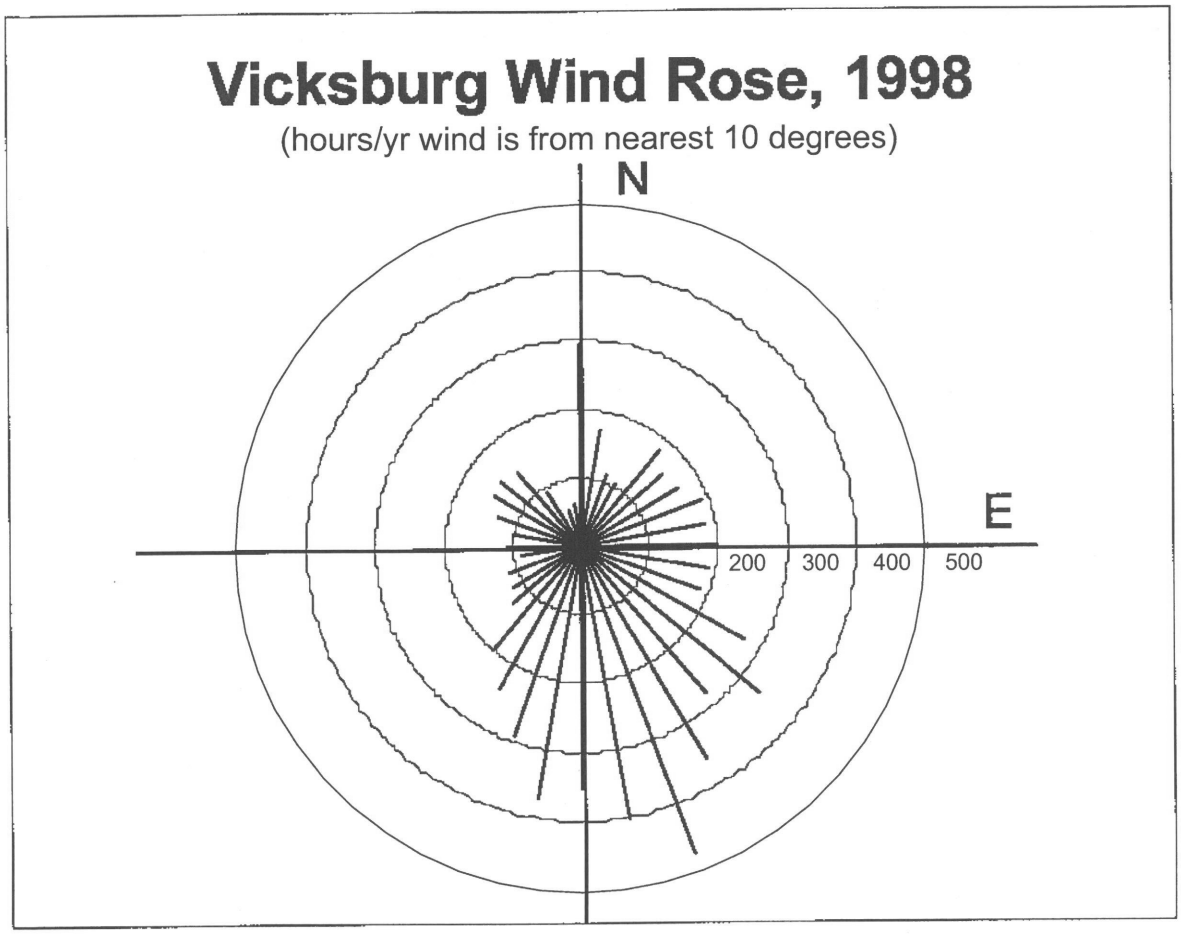
FIGURE 2.7-8 REV. 1



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EARLY SITE PERMIT APPLICATION
ENVIRONMENTAL REPORT

VICKSBURG WIND ROSE,
1997

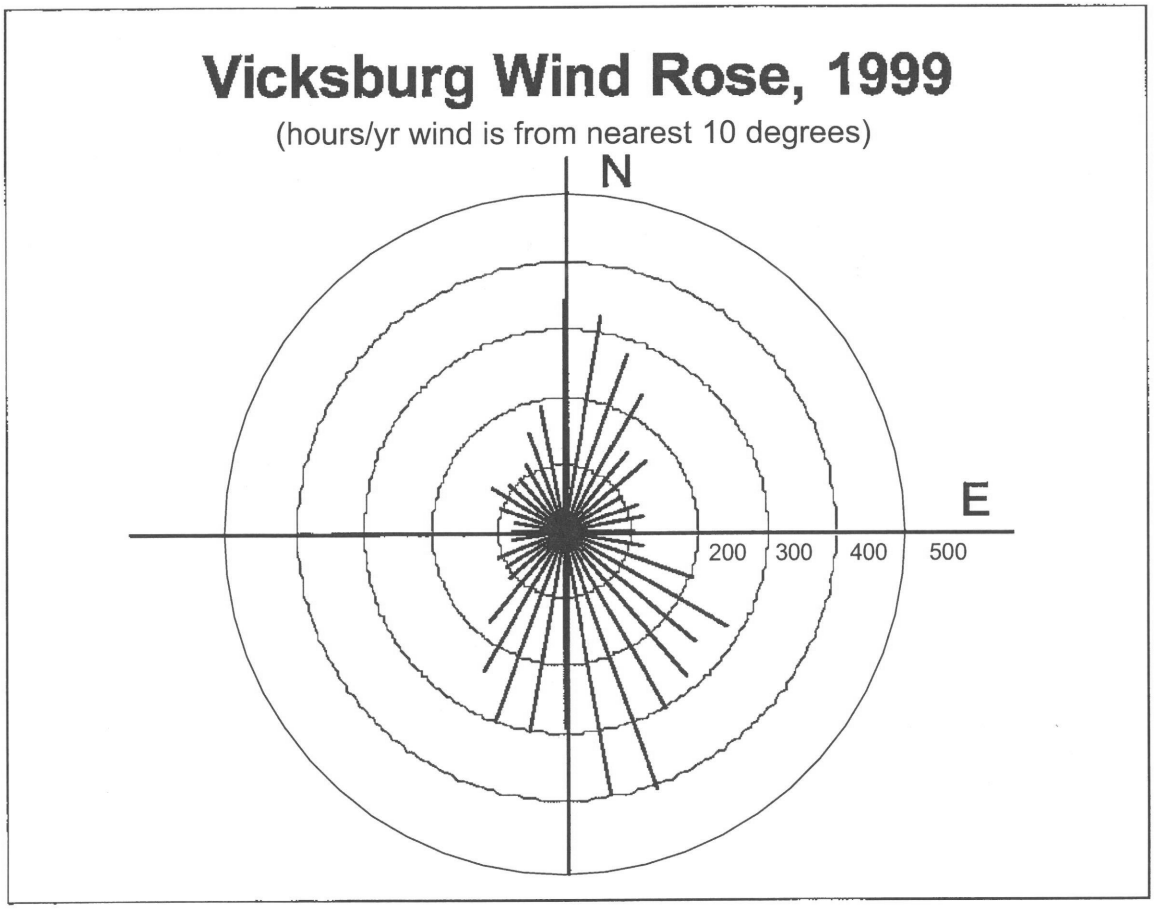
FIGURE 2.7-9 REV. 1



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ENVIRONMENTAL REPORT

VICKSBURG WIND ROSE,
1998

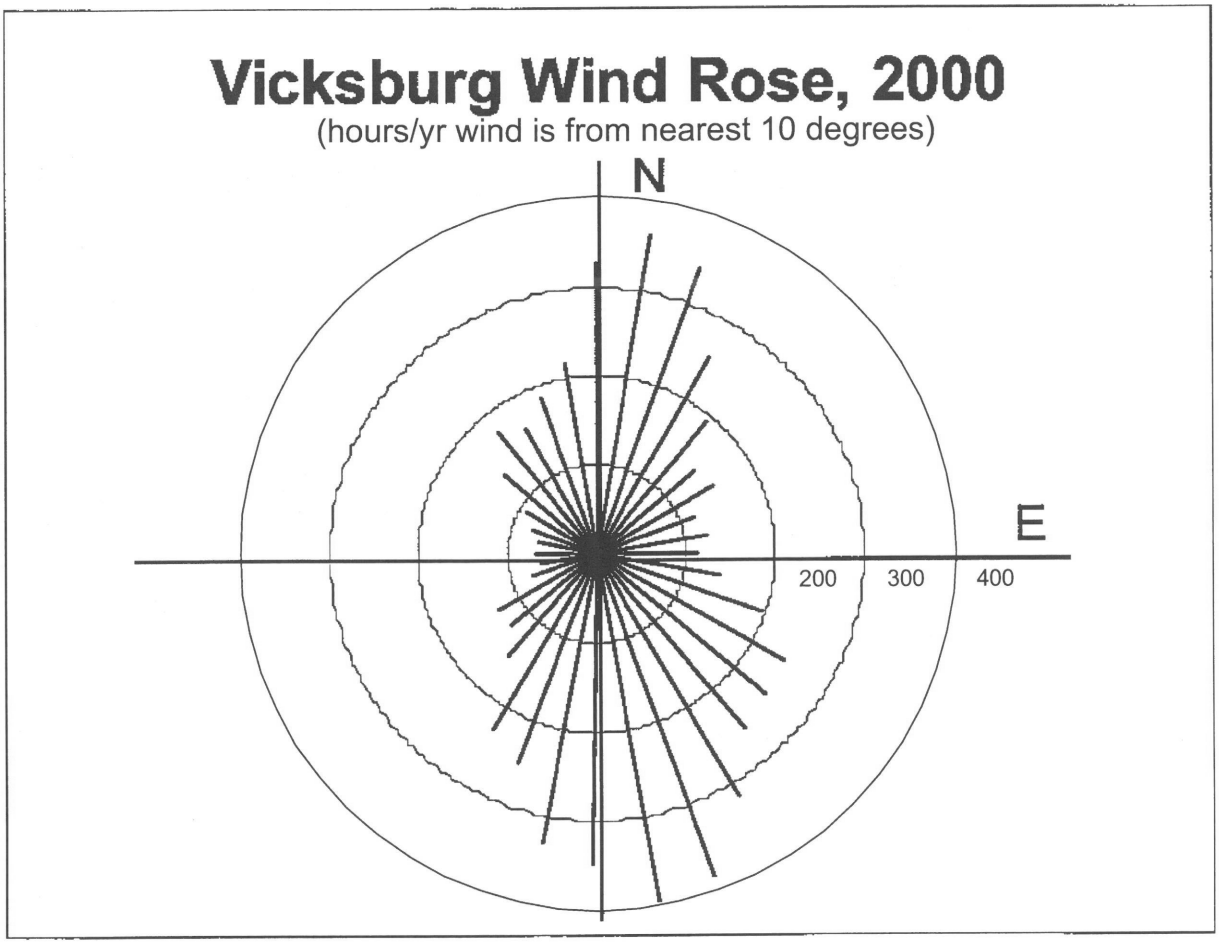
FIGURE 2.7-10 REV. 1



SERI
GRAND GULF NUCLEAR STATION SITE
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ENVIRONMENTAL REPORT

VICKSBURG WIND ROSE,
1999

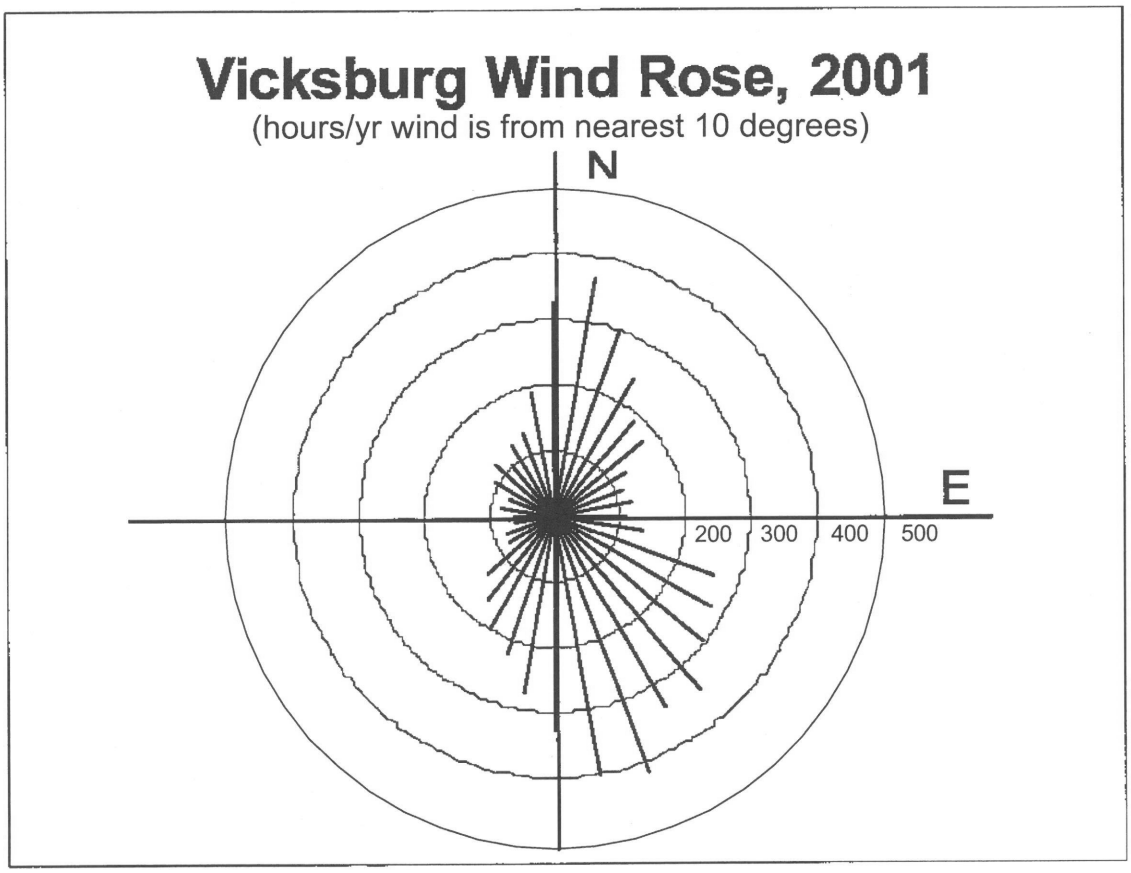
FIGURE 2.7-11 REV. 1



SERI
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EARLY SITE PERMIT APPLICATION
ENVIRONMENTAL REPORT

VICKSBURG WIND ROSE,
2000

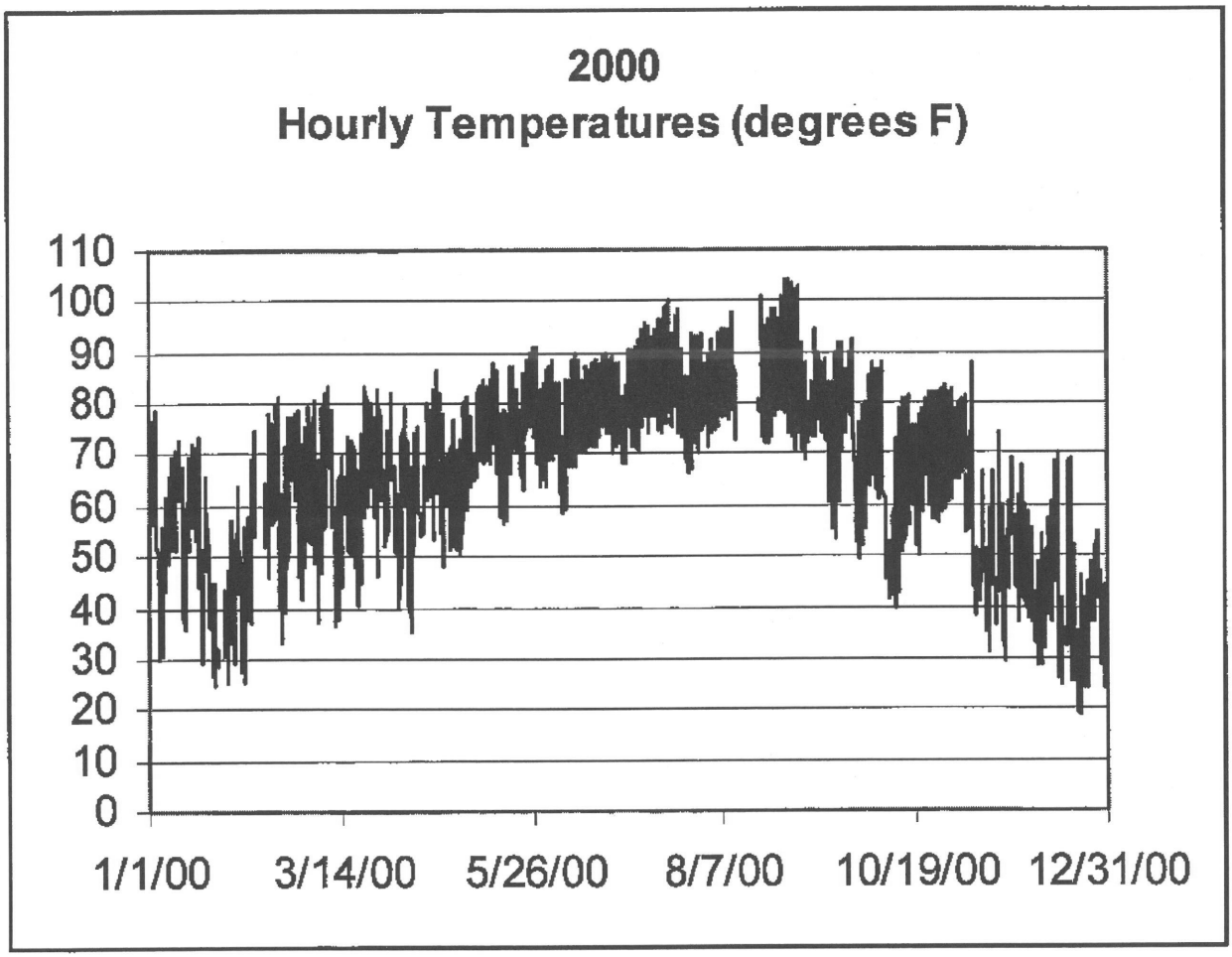
FIGURE 2.7-12 REV. 1



SERI
GRAND GULF NUCLEAR STATION SITE
EARLY SITE PERMIT APPLICATION
ENVIRONMENTAL REPORT

VICKSBURG WIND ROSE,
2001

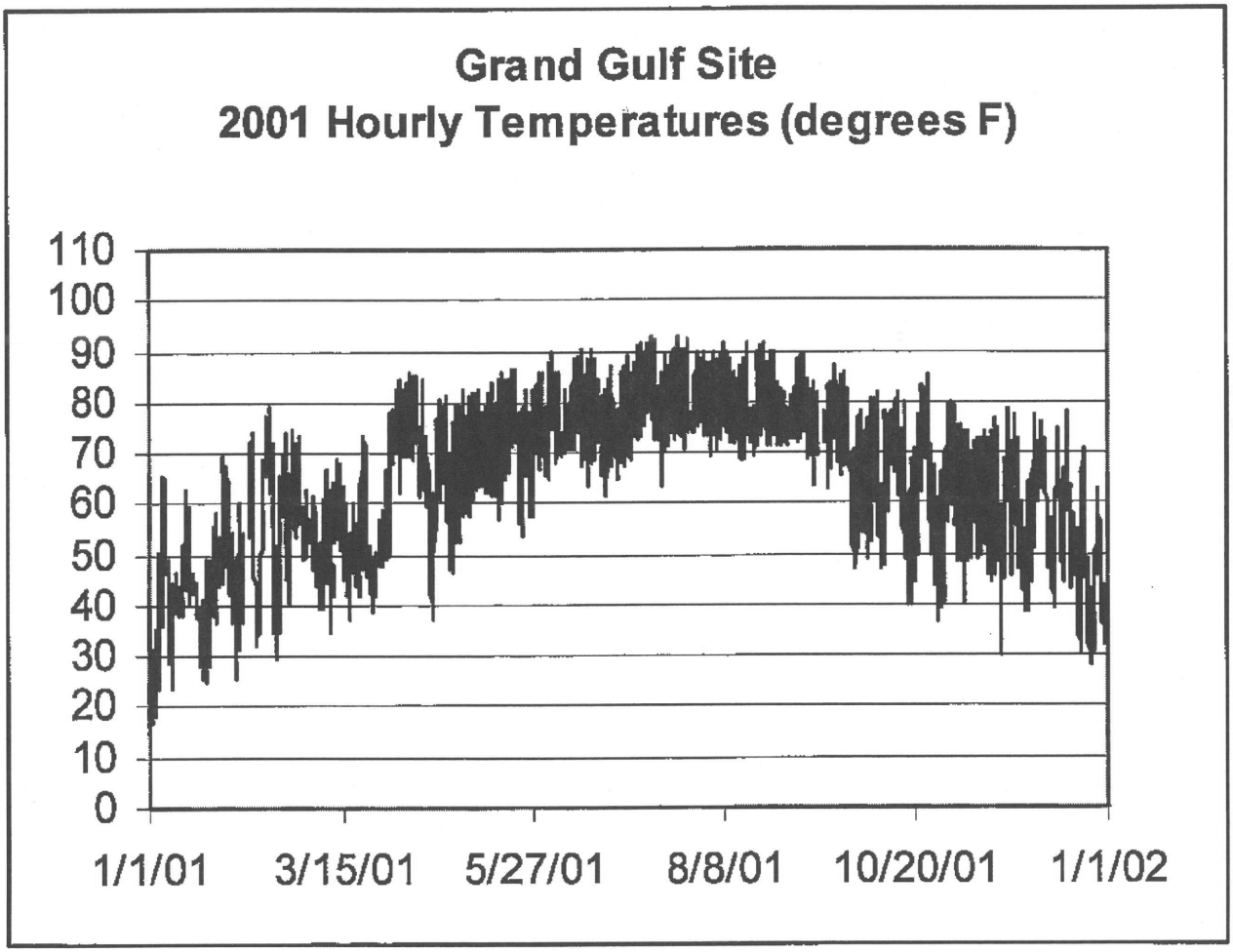
FIGURE 2.7-13 REV. 1



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EARLY SITE PERMIT APPLICATION
ENVIRONMENTAL REPORT

GGNS SITE 2000
HOURLY TEMPERATURES
(DEGREES F)

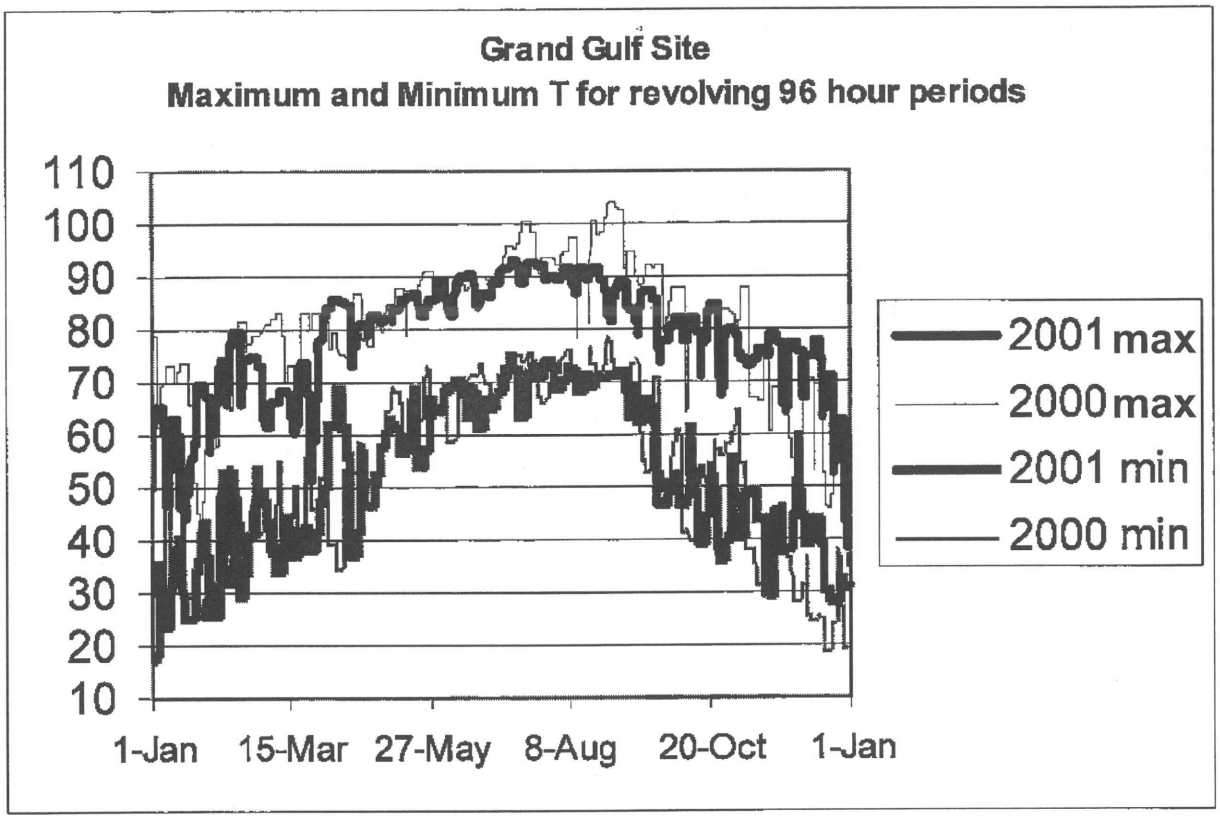
FIGURE 2.7-14 REV. 1



SERI
GRAND GULF NUCLEAR STATION SITE
EARLY SITE PERMIT APPLICATION
ENVIRONMENTAL REPORT

GGNS SITE 2001
HOURLY TEMPERATURES
(DEGREES F)

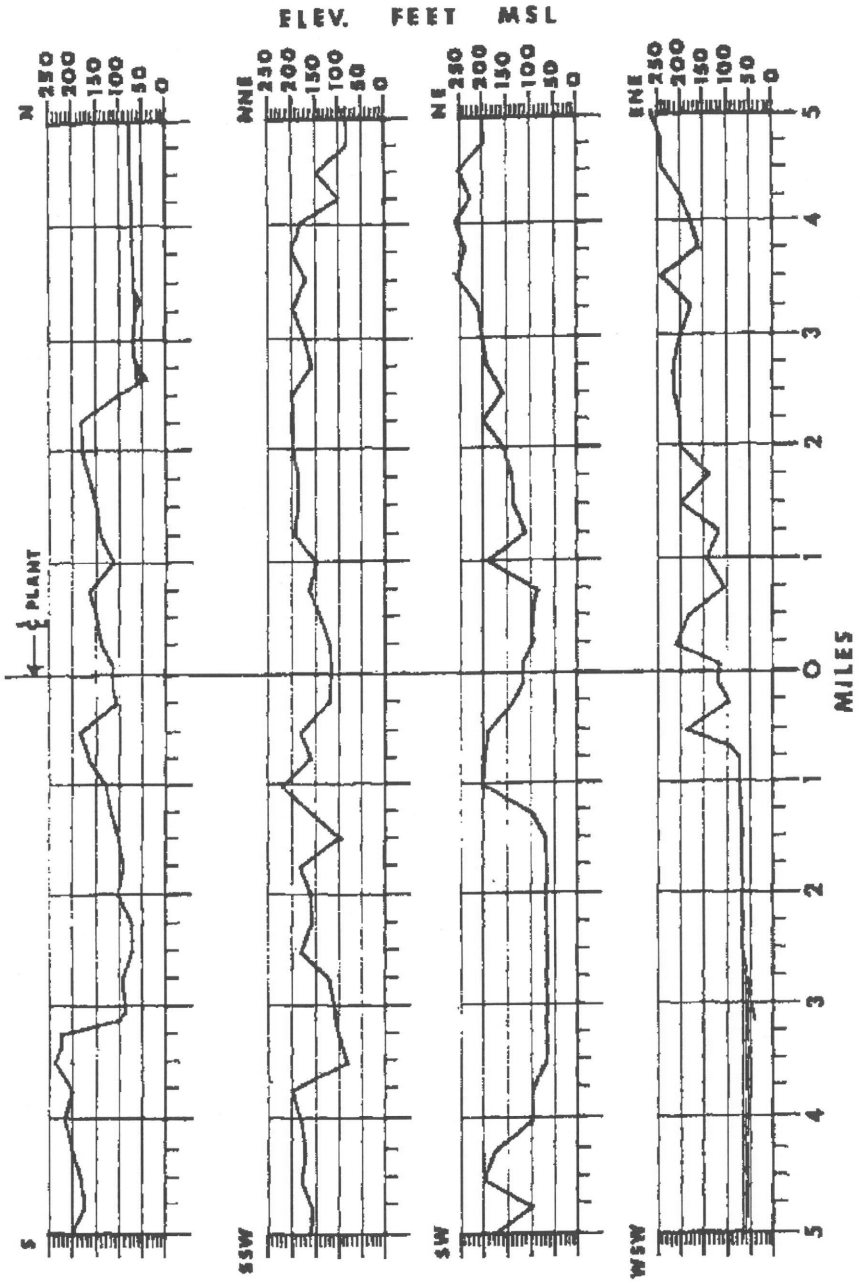
FIGURE 2.7-15 REV. 1



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EARLY SITE PERMIT APPLICATION
ENVIRONMENTAL REPORT

GGNS SITE
MAXIMUM AND MINIMUM TEMPERATURE
FOR REVOLVING 96 HOUR PERIODS

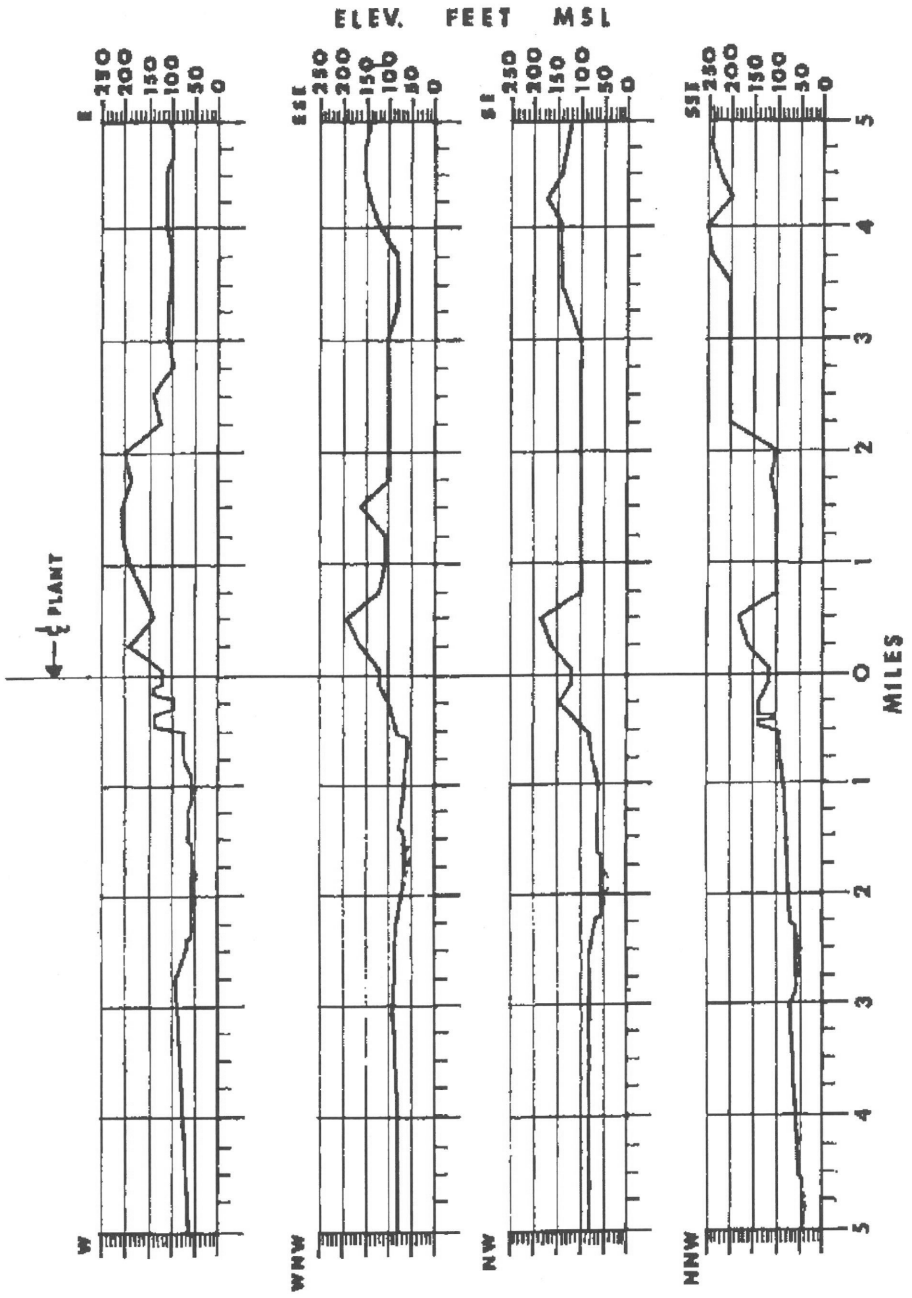
FIGURE 2.7-16 REV. 1



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TOPOGRAPHIC PROFILES
(UFSAR FIGURE 2.3-8)

FIGURE 2.7-17 REV. 1



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TOPOGRAPHIC PROFILES
(UFSAR FIGURE 2.3-9)

FIGURE 2.7-18 REV. 1



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ENVIRONMENTAL REPORT

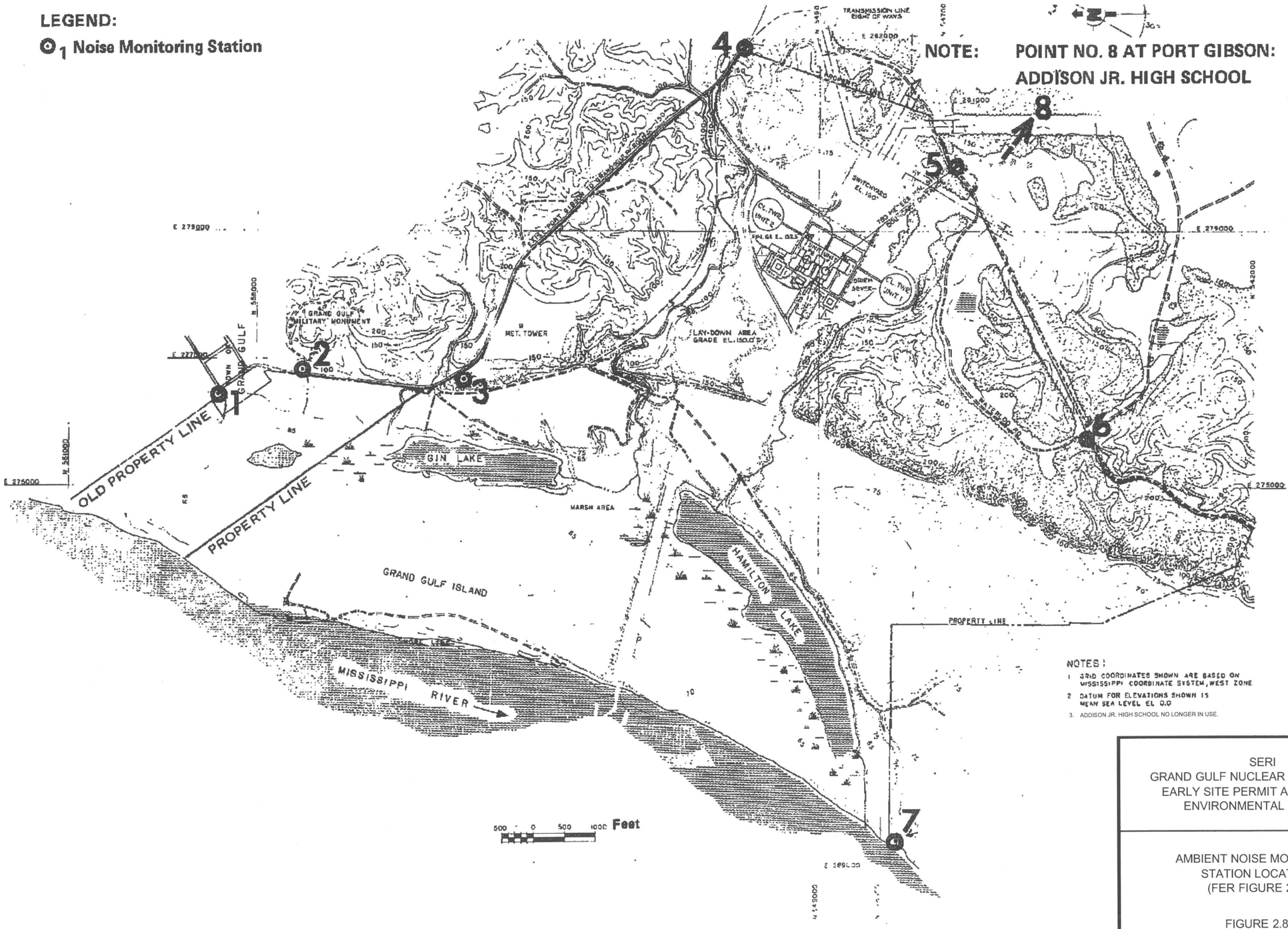
TOPOGRAPHIC PLAN OF AREA
WITHIN 5 AND 10 MILES OF PLANT
(UFSAR FIGURE 2.3-10)

FIGURE 2.7-19 REV. 1

LEGEND:

⊙1 Noise Monitoring Station

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



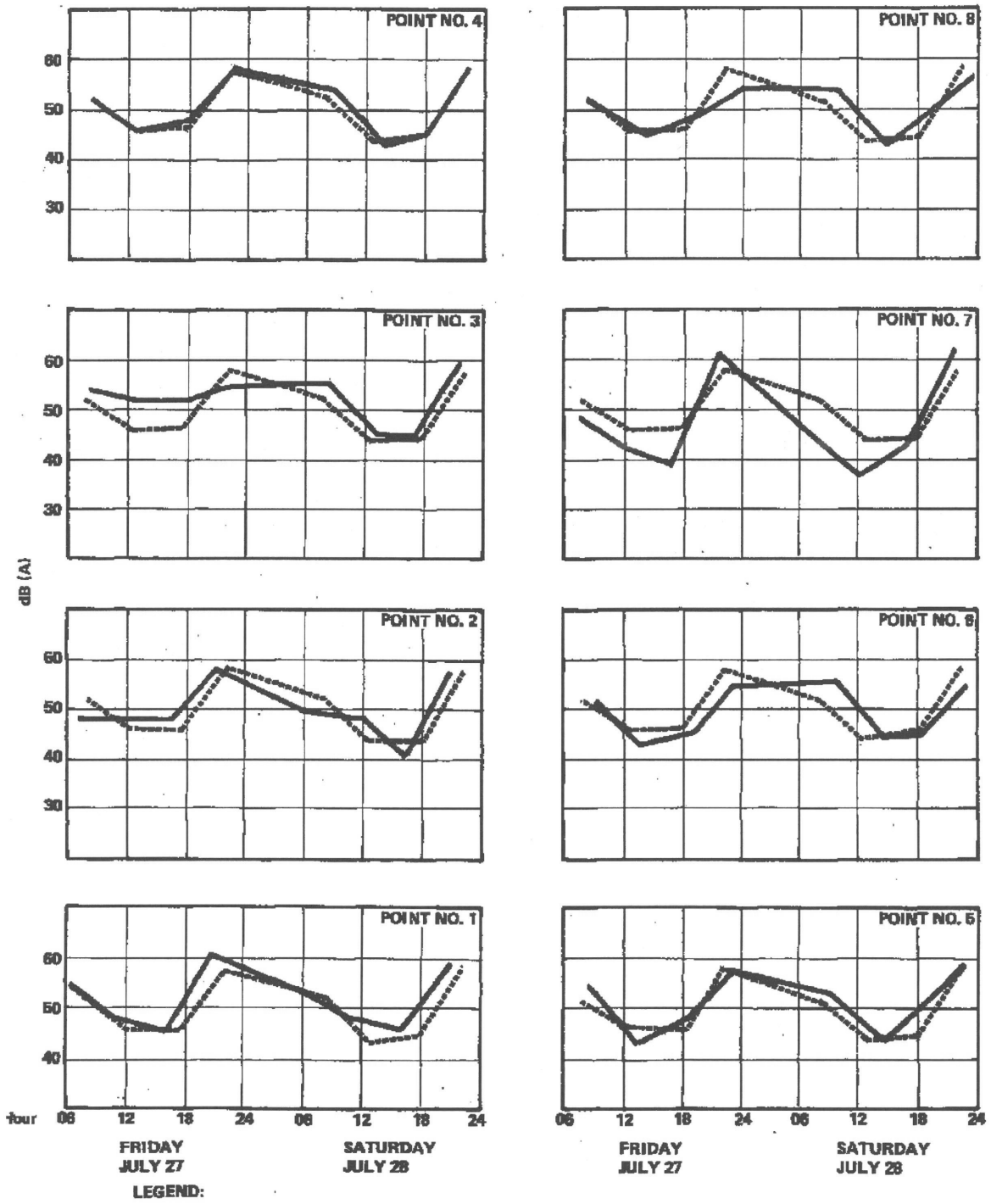
NOTES:

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

FIGURE 2.8-1 REV. 1



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ENVIRONMENTAL REPORT

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

FIGURE 2.8-2 REV. 1