

GGNS BUILDING LEGEND:

- ① UNIT 1
- ② UNIT 2 (NOT COMPLETED)
- ③ UNIT 1 NDCT
- ④ UNIT 2 NDCT BASIN
- ⑤ SWITCHYARD
- ⑥ WAREHOUSE
- ⑦ ADMINISTRATION BUILDING
- ⑧ ESC BUILDING
- ⑨ RADIAL WELLS
- ⑩ AUXILIARY COOLING TOWER

NOTES:

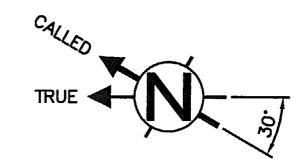
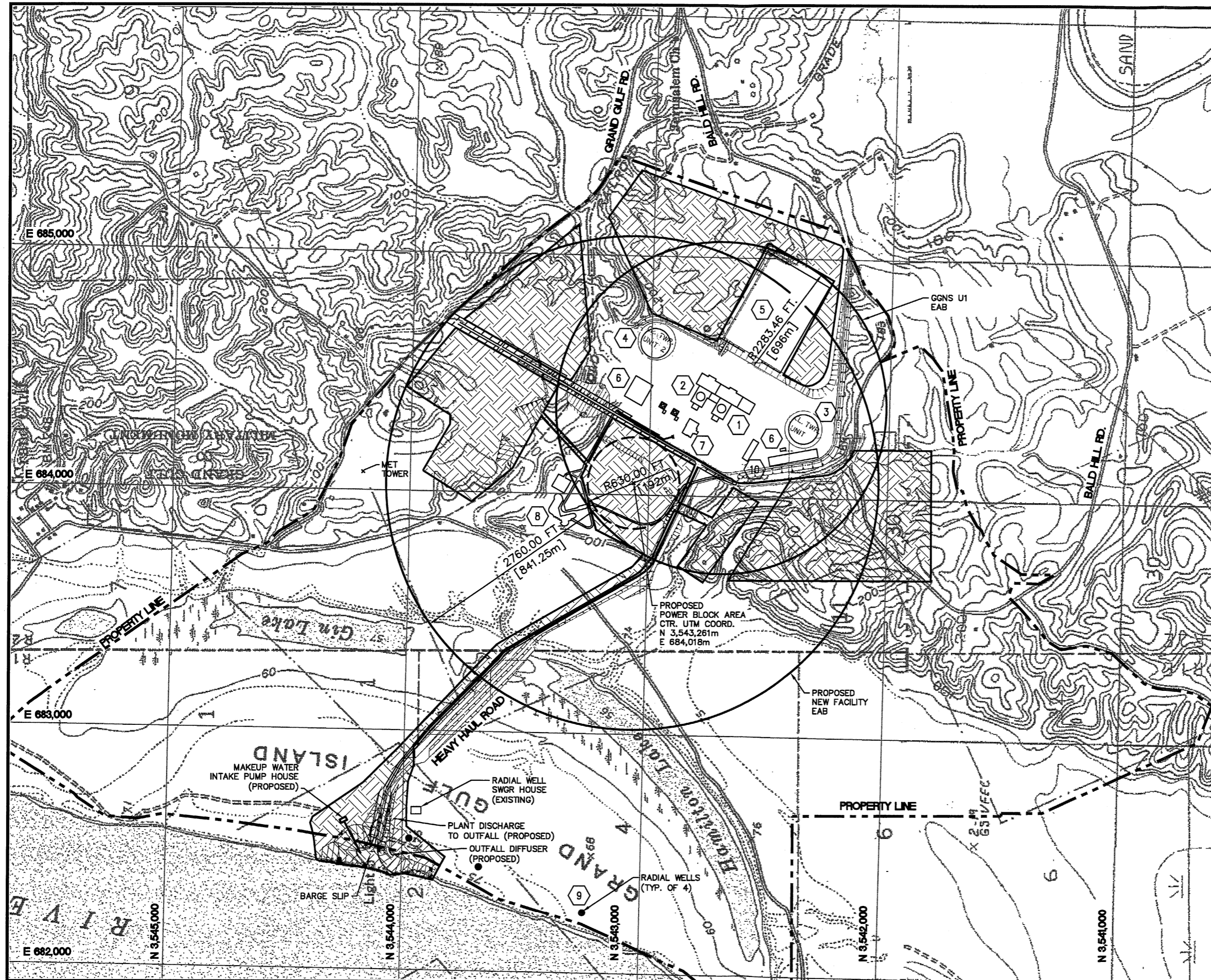
PROPOSED NEW PLANT CONSTRUCTION AREAS.

UTM COORD. GRID SHOWN.

SOURCE:
 USGS TOPO MAP GRAND GULF, MS - LA (1963-1973) AND WIDOWS CREEK, MS - LA (1986 PROVISIONAL)

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 GRAND GULF NUCLEAR STATION SITE
 EARLY SITE PERMIT APPLICATION
 SITE SAFETY ANALYSIS REPORT

GGNS SITE LAYOUT
 WITH PROPOSED NEW FACILITY
 CONSTRUCTION AREAS



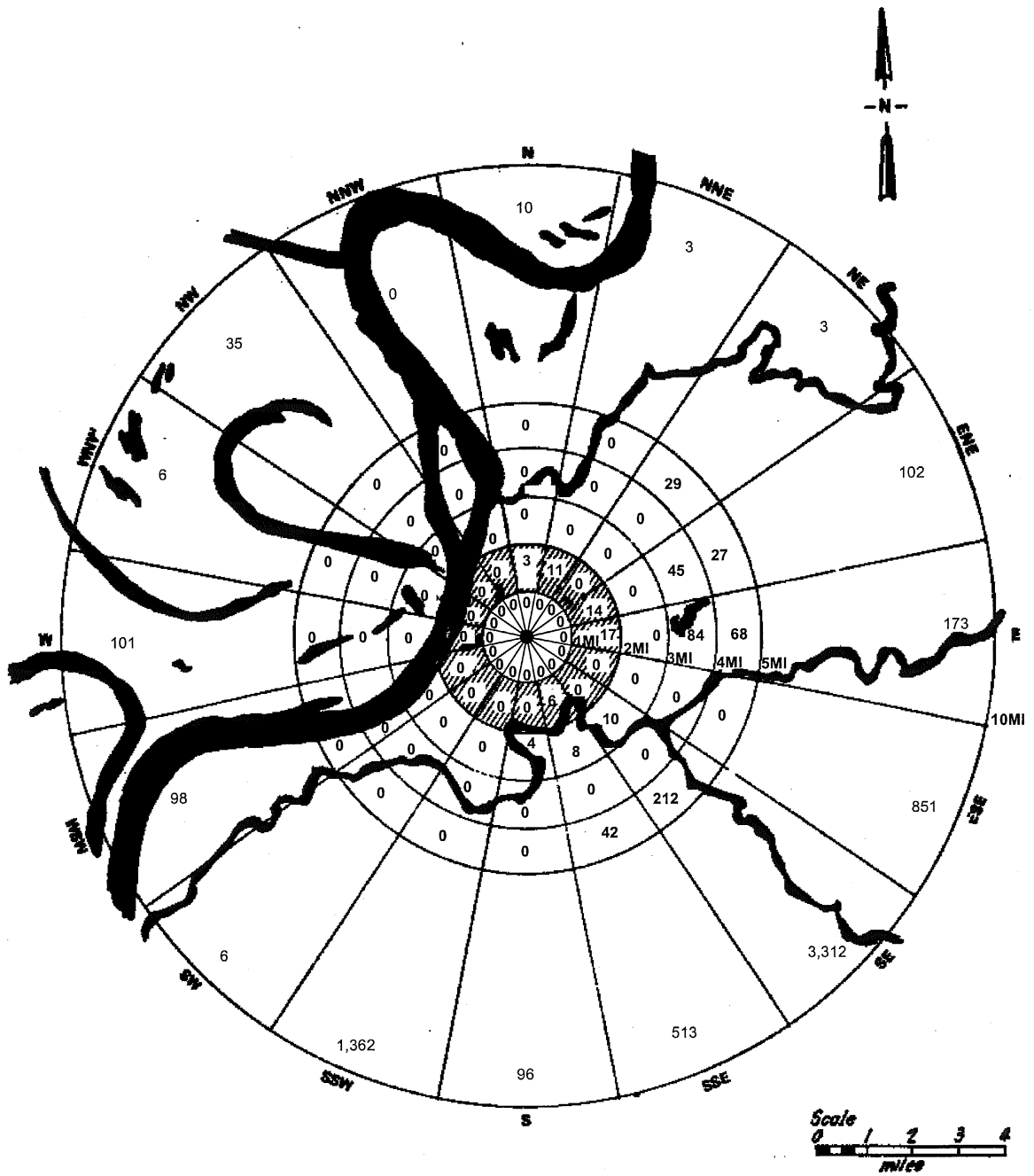
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NOTES:
 [Hatched Area Symbol] PROPOSED NEW PLANT CONSTRUCTION AREAS.
 UTM COORD. GRID SHOWN.

SOURCE:
 USGS TOPO MAP GRAND GULF, MS - LA (1963-1973) AND WIDOWS CREEK, MS - LA (1986 PROVISIONAL)

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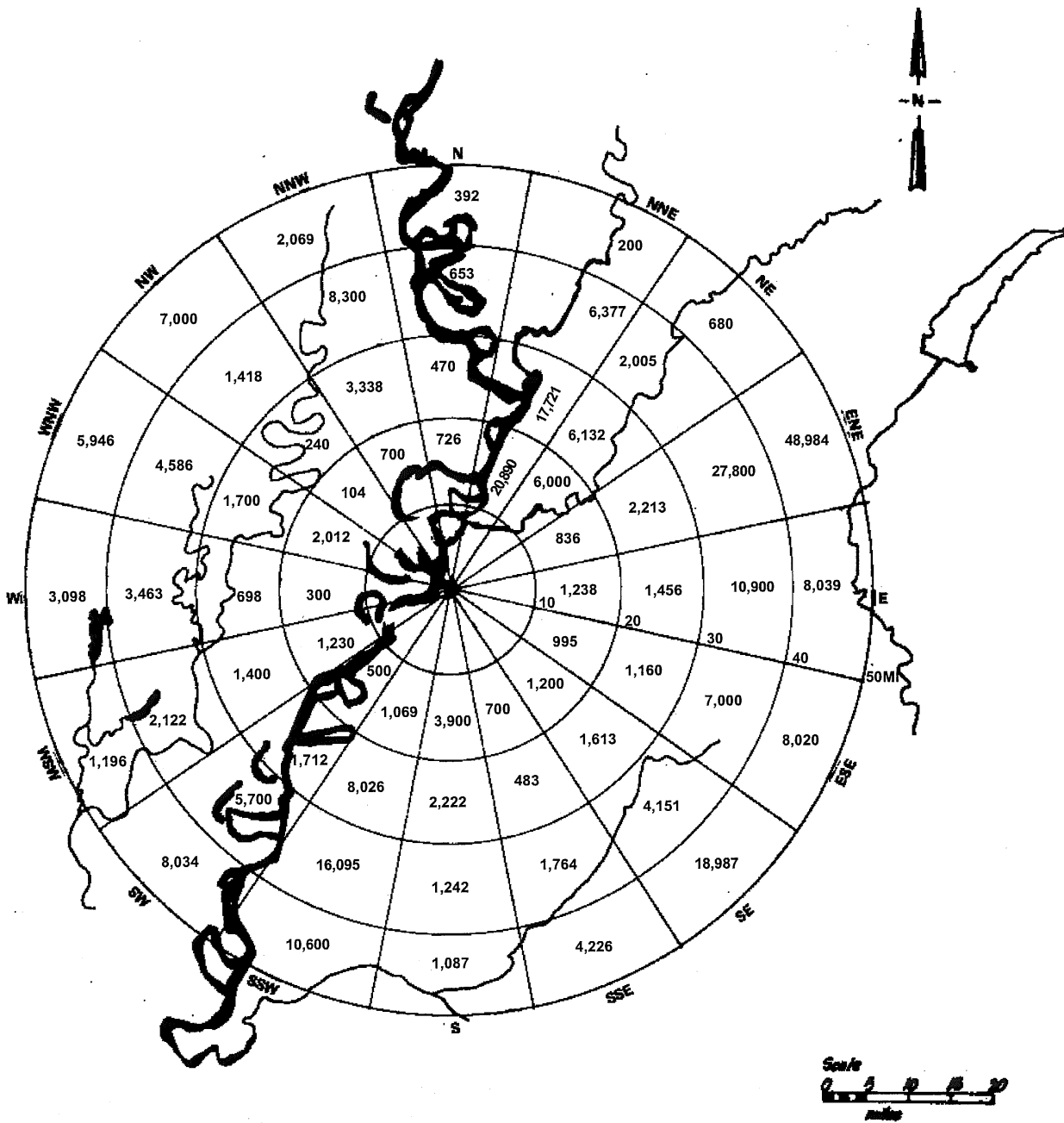
SITE LAYOUT



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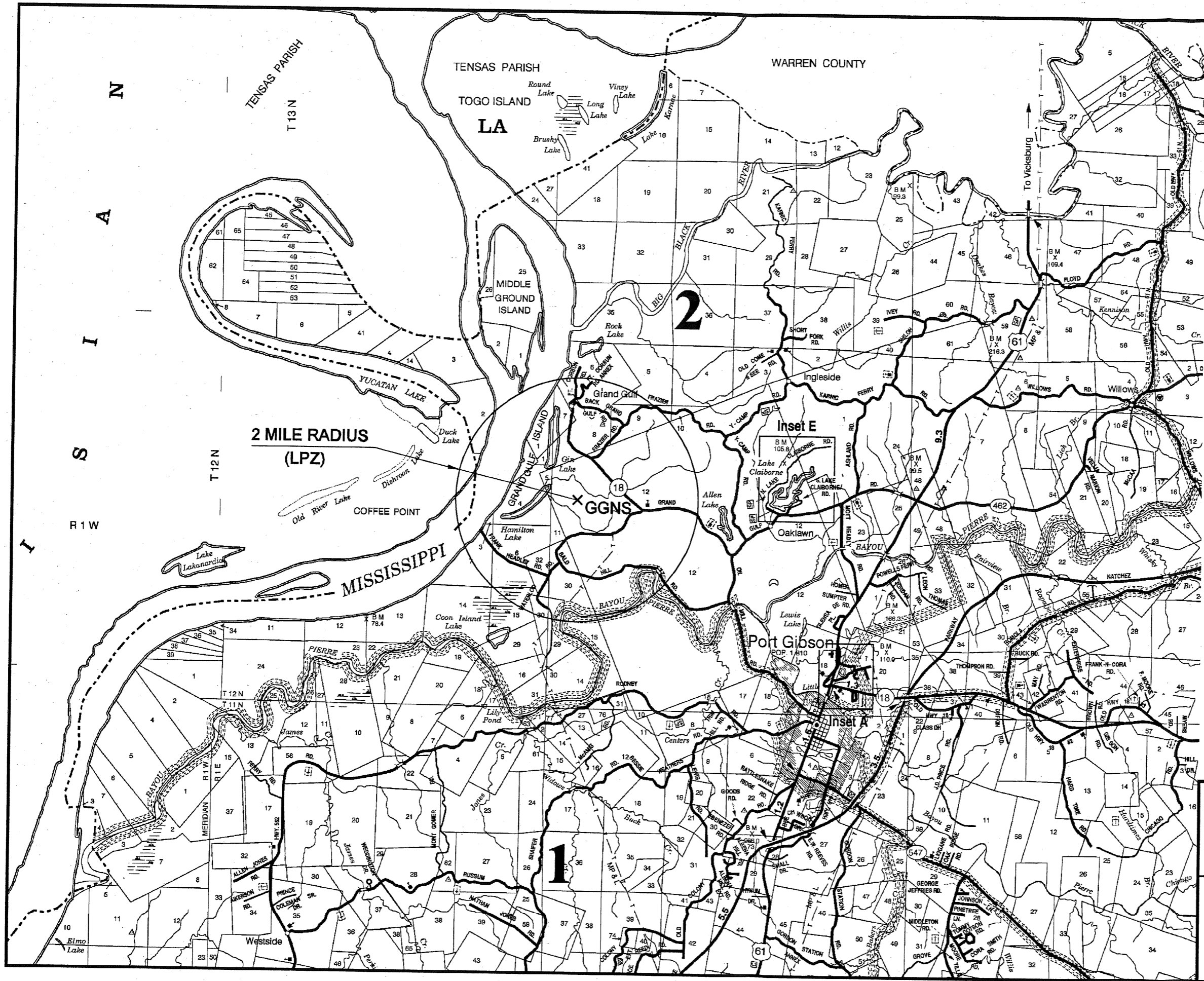
PROJECTED 2002
 POPULATION DISTRIBUTION
 0 - 10 MILES
 (UFSAR FIGURE 2.1-6)

FIGURE 2.1-3



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



LEGEND

- | | |
|-----------------------------------|------------------------------------|
| ROADS AND ROADWAY FEATURES | NAVIGATION |
| UNIMPROVED ROAD | DOCK PIER OR LAUNDRY |
| GRAVEL | LEVEE OR DIKE |
| PAVED ROAD | LEVEE OR DIKE WITH ROAD |
| UNIMPROVED HIGHWAY | |
| DIVIDED HIGHWAY | |
| INTERSTATE SYSTEM | |
| CITY STREETS | |
| | CITY AND VILLAGE CENTERS |
| | COUNTY SEAT |
| | OTHER CITIES AND VILLAGES |
| | MISCELLANEOUS |
| | TRIANGULATION STATION |
| | BENCH MARK WITH ELEVATION |
| | PUBLIC SERVICE FACILITIES |
| | PRELIME. GAS ID FOR OIL |
| | TRANSMISSION LINE |
| | UNDERGROUND TELEPHONE CABLE |
| | OBSERVATION OR LOCKOUT TOWER |
| | HIGHWAY GARAGE |
| | POST OFFICE |
| | POWER PLANT |
| | WEIGHT STATION |
| | HOSPITAL |
| | SEWAGE DISPOSAL PLANT |
| | COMMUNITY CENTER OR TOWNHALL |
| | NATIONAL PARK GARAGE |
| | FIRE STATION |
| | PUBLIC LIBRARY |
| | SWAMPY LAND FILL |
| | CORRECTIONAL INSTITUTION |
| | POLICE STATION |
| | SHWEL. ST. |
| | REST AREA |
| | CONSERVATION AND RECREATION |
| | NOTE, OR HOTEL |
| | CAMP OR LODGE |
| | HISTORIC OR SCENIC SITE |
| | FRAN SPONGS OR RACE COURSE |
| | SMALL PARK |
| | GOLF COURSE OR COUNTRY CLUB |
| | INDUSTRIAL |
| | FACTORY OR INDUSTRY |
| | SEASONAL INDUSTRY |
| | CHURCHES AND CEMETERIES |
| | CHURCH |
| | CEMETERY |
| | CHURCH WITH CEMETERY ADJACENT |
| | EDUCATION |
| | SCHOOL |
| | MISCELLANEOUS STRUCTURES |
| | ARMORY |
| | FORT ARMY CAMP |

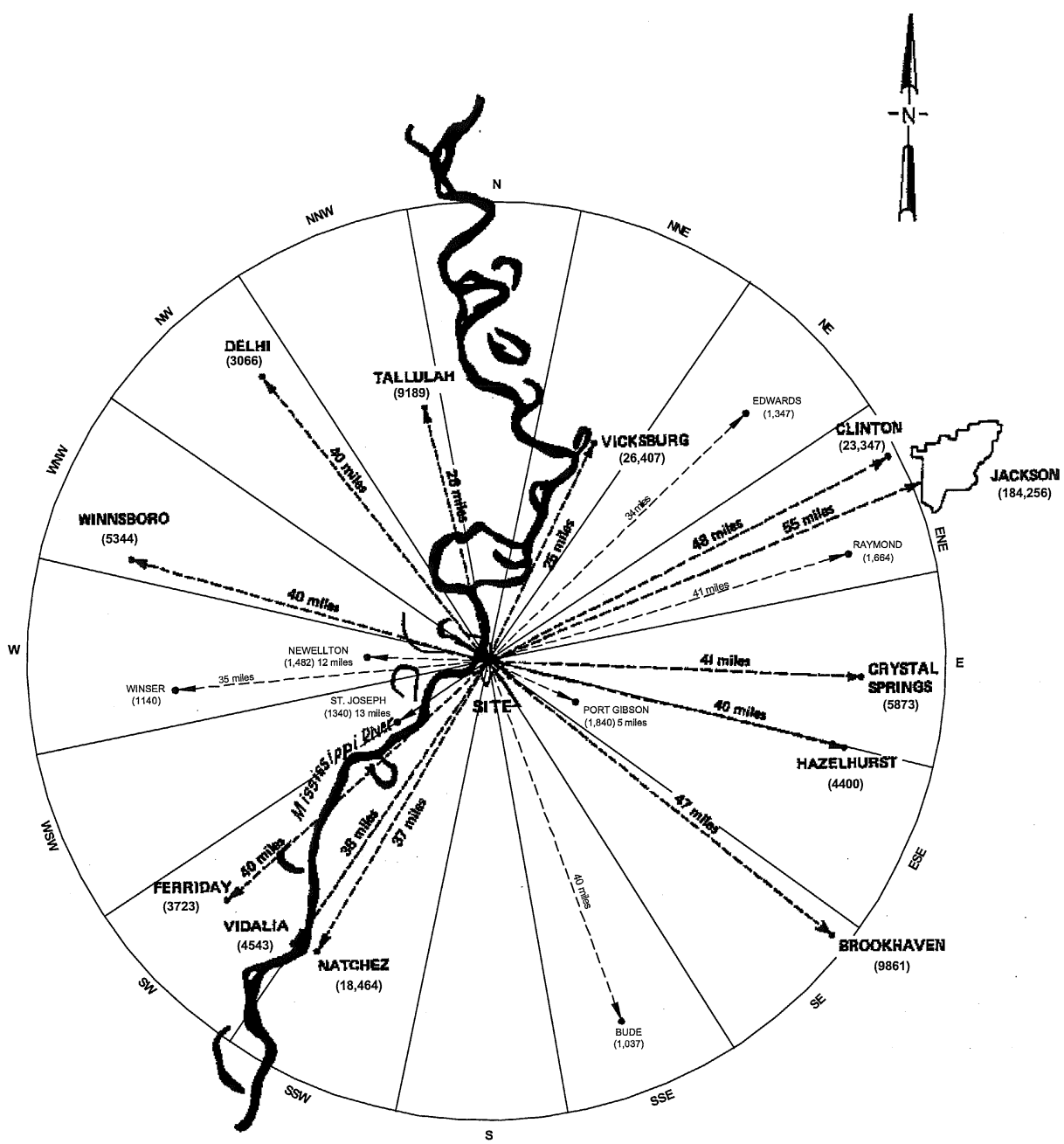
DATA SOURCES
 1984 ASCS AERIAL PHOTOS
 1987 USGS OLD
 1998 USGS FIELD INVENTORY
 1990 POPULATION 11,570
 1986 BEAT LINES



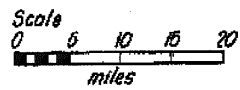
GENERAL HIGHWAY MAP
CLAIBORNE COUNTY
 MISSISSIPPI
 © 2000
 MISSISSIPPI DEPARTMENT OF TRANSPORTATION
 PLANNING DIVISION
 IN COOPERATION WITH THE
 U.S. DEPARTMENT OF TRANSPORTATION
 FEDERAL HIGHWAY ADMINISTRATION
 TRANSVERSE MERCATOR PROJECTION,
 STATE PLANE COORDINATE SYSTEM 1983

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EARLY SITE PERMIT APPLICATION
SITE SAFETY ANALYSIS REPORT

TRANSPORTATION ROUTES IN THE
VICINITY OF THE SITE AND
LOW POPULATION ZONE

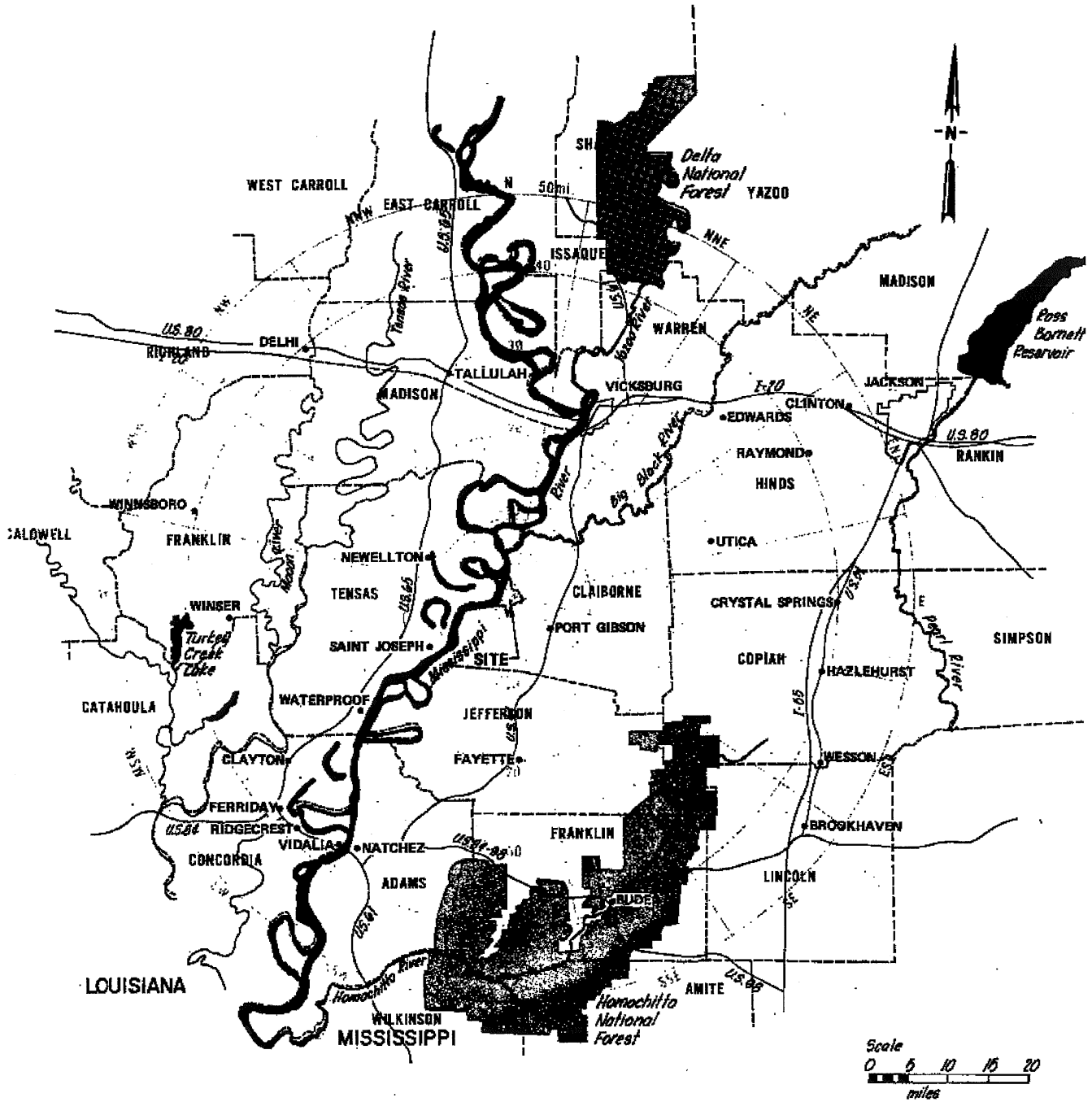


POP. SOURCE: 2000 BUREAU OF CENSUS



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COMMUNITIES OVER 1000
 POPULATION






SOURCE: Official highway map - Louisiana (1970)
 Official highway map - Mississippi (1971)

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GENERAL AREA MAP
 (UFSAR FIGURE 2.1-3)

NATURAL GAS PIPELINES
WARREN COUNTY, MISSISSIPPI

GAS PIPELINES	
	TRANSMISSION
	LOCAL-PRIVATE
	LOCAL-MUNICIPAL




LINE CODE	PIPELINE OWNER/OPERATOR
MS	MISSISSIPPI FUEL CO.
SN	SOUTHERN NATURAL GAS PIPELINE
UG	UNION GAS
UN	UNITED GAS PIPELINE CO.

NATURAL GAS PIPELINES
CLAIBORNE COUNTY, MISSISSIPPI

GAS PIPELINES	
	TRANSMISSION
	LOCAL-PRIVATE
	LOCAL-MUNICIPAL

LINE CODE	PIPELINE OWNER/OPERATOR
CN	CLAIBORNE NATURAL GAS
UG	UNION GAS

NATURAL GAS PIPELINES
JEFFERSON COUNTY, MISSISSIPPI

GAS PIPELINES	
	TRANSMISSION
	LOCAL-PRIVATE
	LOCAL-MUNICIPAL

LINE CODE	PIPELINE OWNER/OPERATOR
CN	CLAIBORNE NATURAL GAS
KB	KERN & BROOKS OIL OPERATIONS
TE	TEXAS EASTERN
UG	UNION GAS

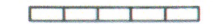
Prepared for the Municipal Gas Authority of Mississippi by



DISCLAIMER
The Mississippi Mineral Resources Institute and The University of Mississippi are not responsible for the accuracy of the sources used to determine pipeline locations and associated information. These data should not substitute for field verification or standard engineering procedures at specific sites. Data last updated in 1992.

EXAMPLE OF LINE CODE USE
Example Code:
ET-2-8, 10 = Entex - 2 lines - 8 & 10 inches

0 5 Miles

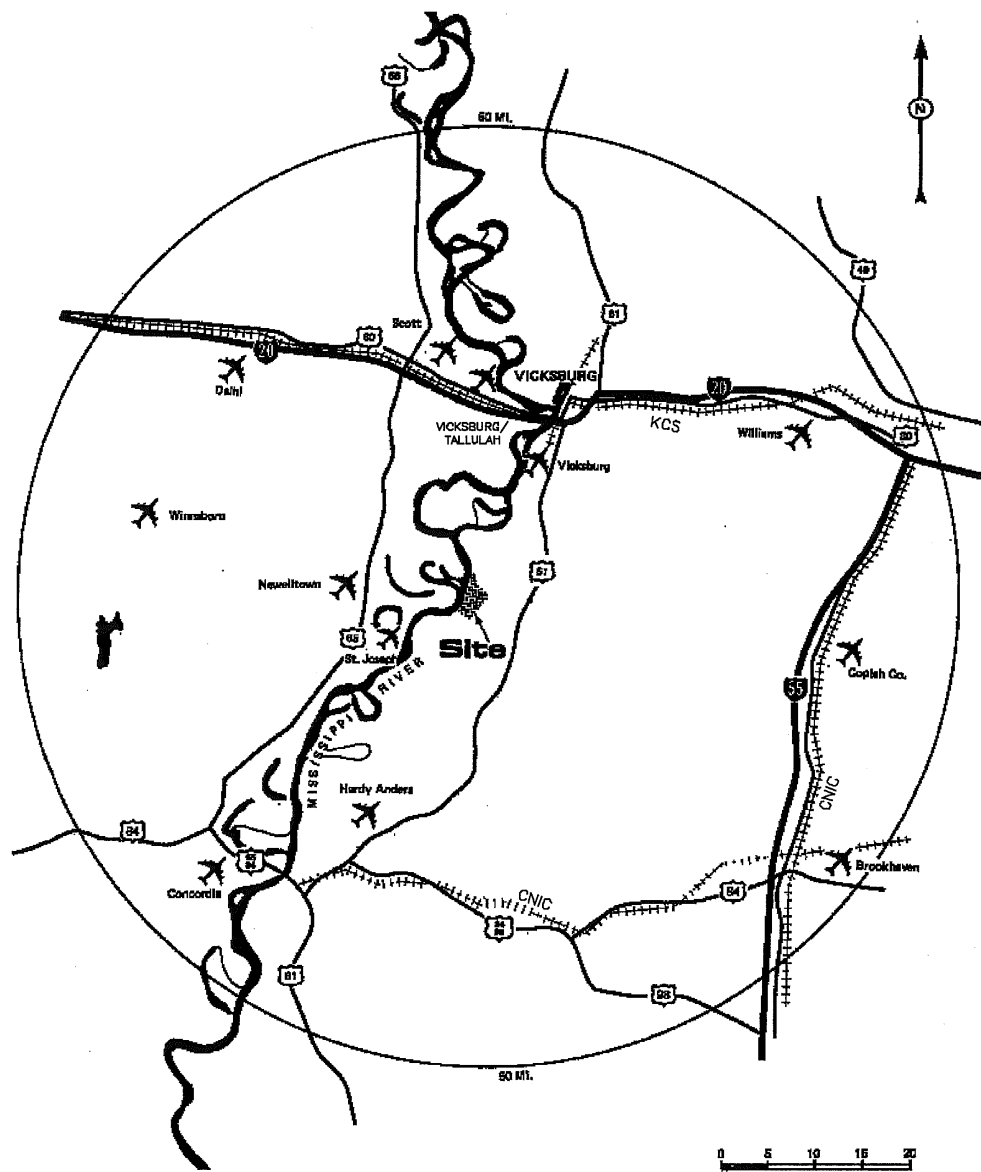






SCALE: 1:350,000

Transverse Mercator Projection
Nad27 Datum

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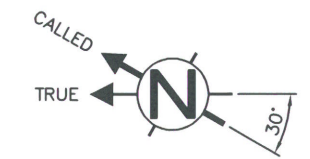
3 - COUNTY NATURAL
GAS LINE MAP



-  AIRPORT
-  RAILROAD
-  FEDERAL HIGHWAY
-  INTERSTATE HIGHWAY

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TRANSPORTATION MAP
 GENERAL AREA



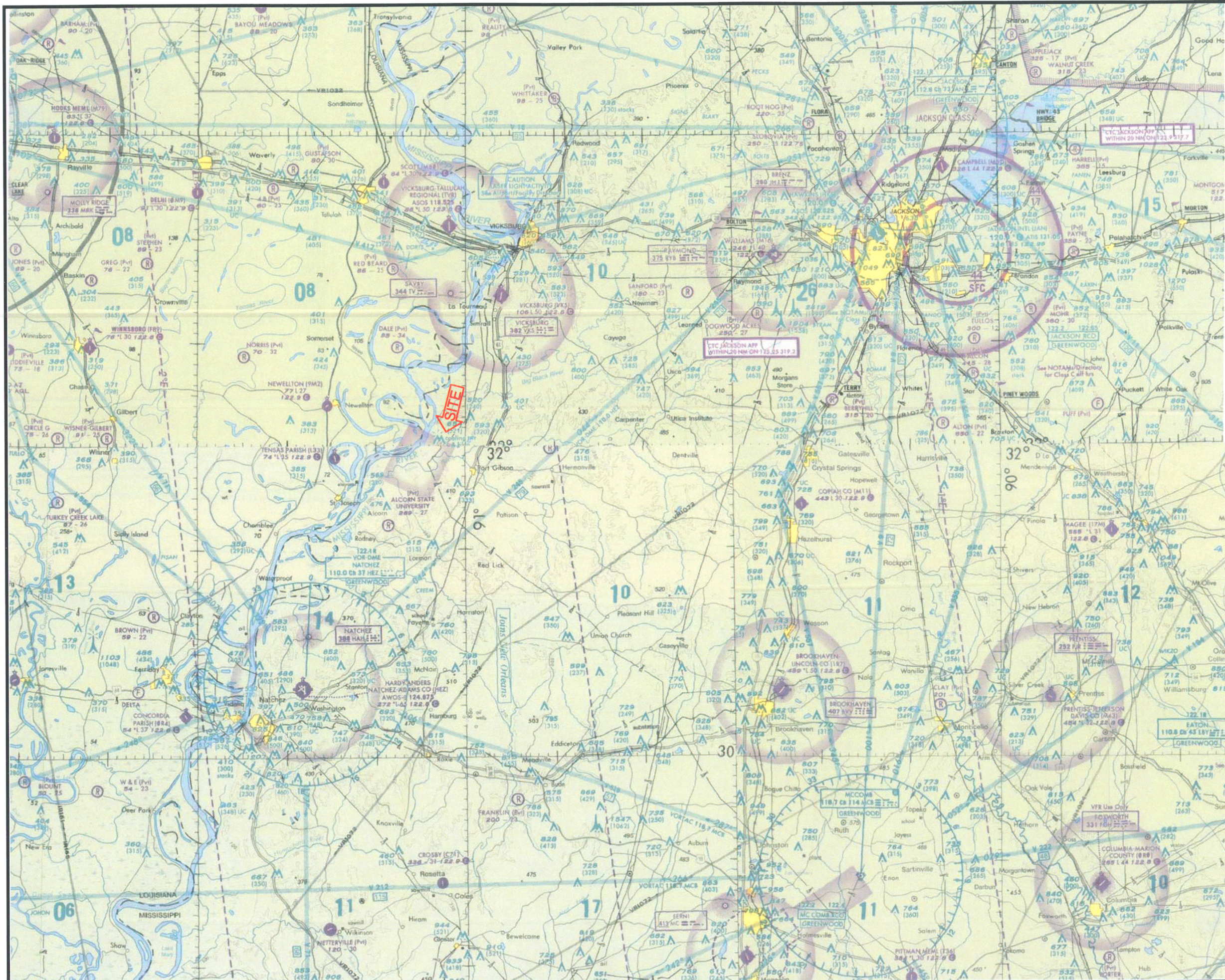
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NOTES:
 PROPOSED NEW PLANT CONSTRUCTION AREAS.
 UTM COORD. GRID SHOWN.

SOURCE:
 USGS TOPO MAP GRAND GULF, MS - LA (1963-1973) AND WIDOWS CREEK, MS - LA (1986 PROVISIONAL)

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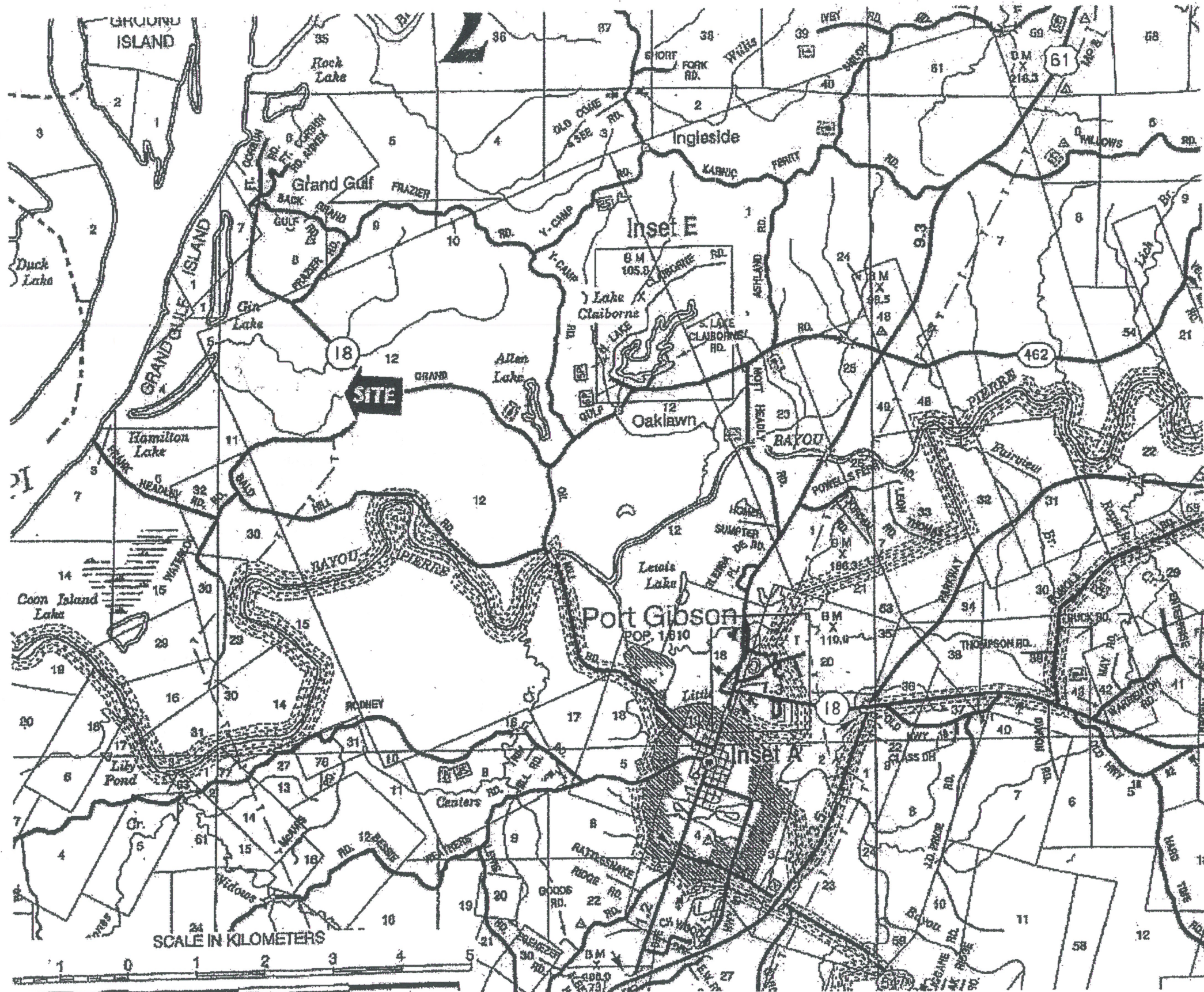
PORT CLAIBORNE
 LOCATION



SOURCE:
 Houston Section Aeronautical Chart, 70th Edition October 3, 2002, published by the US Department of Transportation, Federal Aviation Administration, National Aeronautical Charting Office
 New Orleans Section Aeronautical Chart, 71st Edition November 28, 2002, published by the US Department of Transportation, Federal Aviation Administration, National Aeronautical Charting Office
 Memphis Section Aeronautical Chart, 69th Edition October 3, 2002, published by the US Department of Transportation, Federal Aviation Administration, National Aeronautical Charting Office

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AIR ROUTE MAP
 FOR GGNS SITE AREA



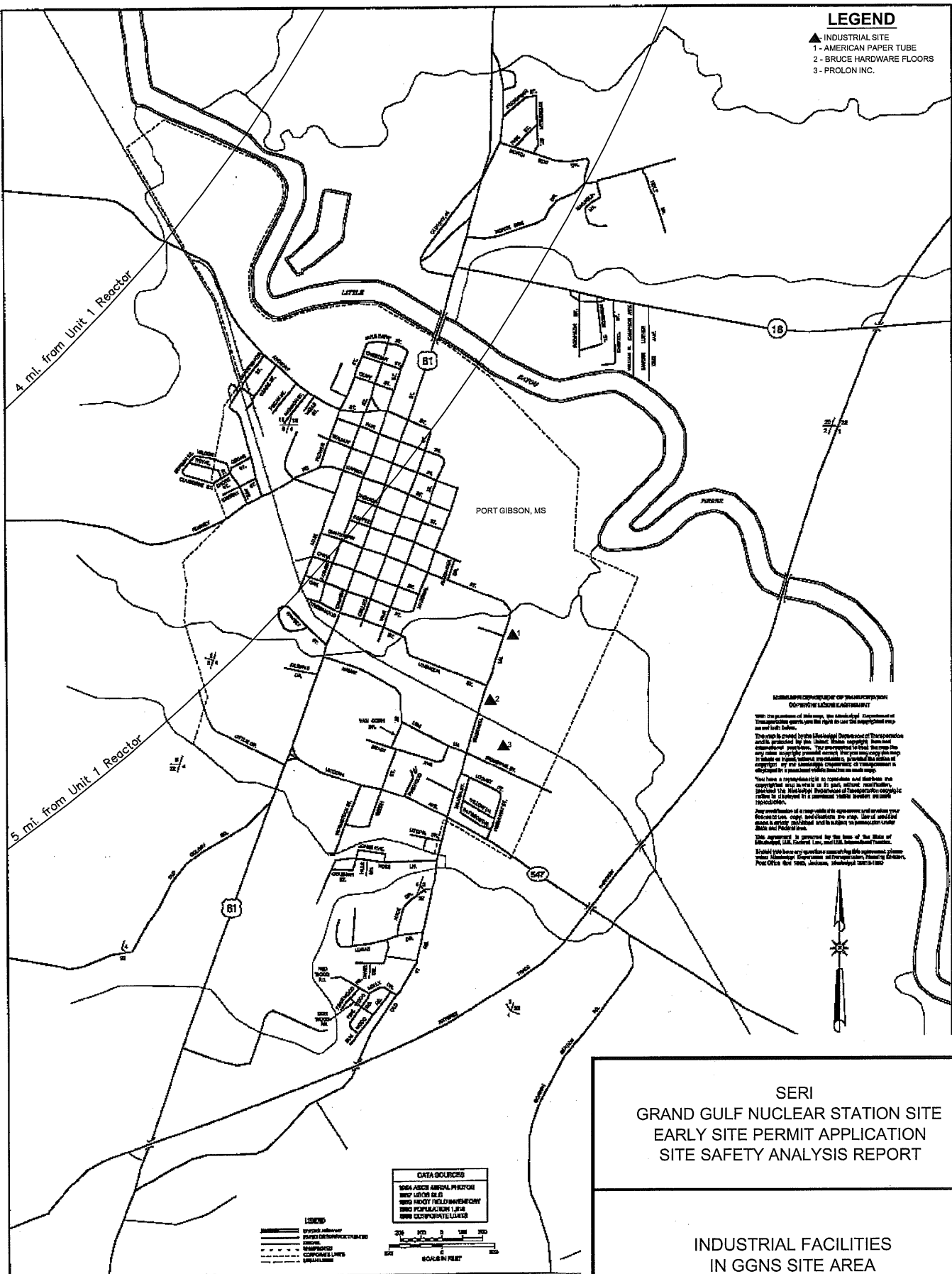
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TRANSPORTATION MAP
 AREA HIGHWAYS - MISSISSIPPI

SOURCE: GENERAL HIGHWAY MAP, CLAIBORNE COUNTY, MS., 2000 (MDOT PLANNING DIV.)

LEGEND

- ▲ INDUSTRIAL SITE
- 1 - AMERICAN PAPER TUBE
- 2 - BRUCE HARDWARE FLOORS
- 3 - PROLON INC.



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 Department of Transportation
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DATA SOURCES
 MISSISSIPPI AERIAL PHOTO
 MISSISSIPPI GEOGRAPHIC INFORMATION SYSTEM
 MISSISSIPPI POPULATION DATA
 MISSISSIPPI CORPORATE MAPS

LEGEND
 Major Highway
 Minor Highway
 Railroad
 Waterway
 Interstate
 Corporate Line
 Corporate Line



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INDUSTRIAL FACILITIES
 IN GGNS SITE AREA

SOURCE: MDOT PLANNING DIV., PORT GIBSON, MS.,
 CLAIBORNE COUNTY MAP

SEE UFSAR
FIGURE 2.2-5

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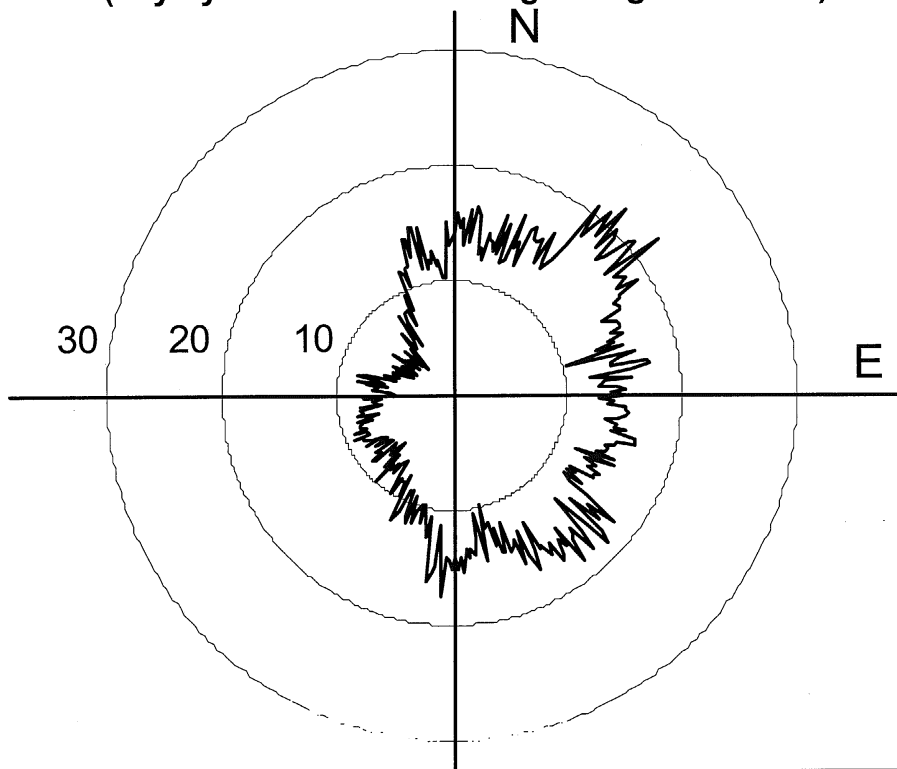
LOCATION OF CHEMICAL STORAGE
(UFSAR FIGURE 2.2-5)

FIGURE 2.2-8

REV. 1

GGNS Site Wind Rose, 2001-2003

(days/yr wind is from integer degree at 33 ft)



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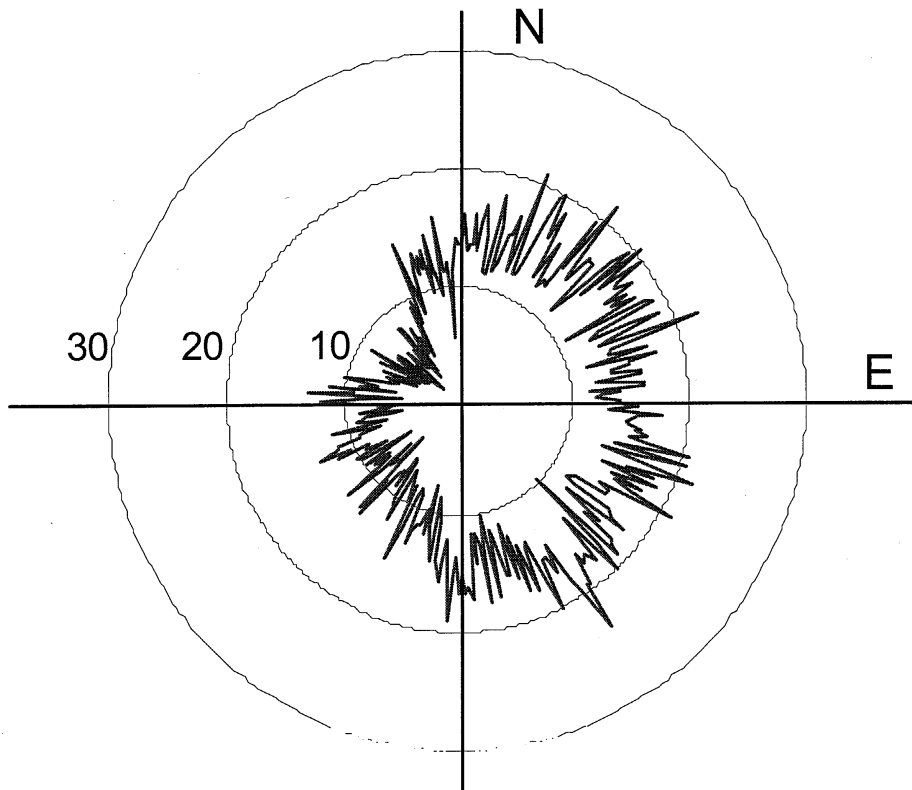
GGNS SITE WIND ROSE,
2001-2003

FIGURE 2.3-1

REV. 1

GGNS Site Wind Rose, 2001

(days/yr wind is from integer degree at 33 ft)



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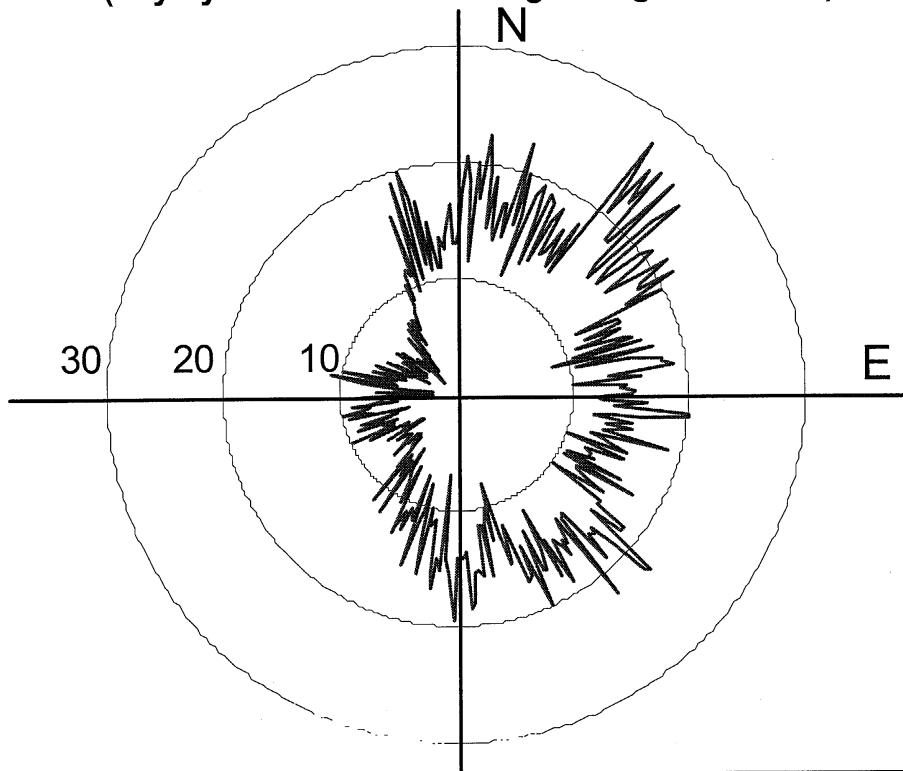
GGNS SITE WIND ROSE,
2001

FIGURE 2.3-2

REV. 1

GGNS Site Wind Rose, 2002

(days/yr wind is from integer degree at 33 ft)



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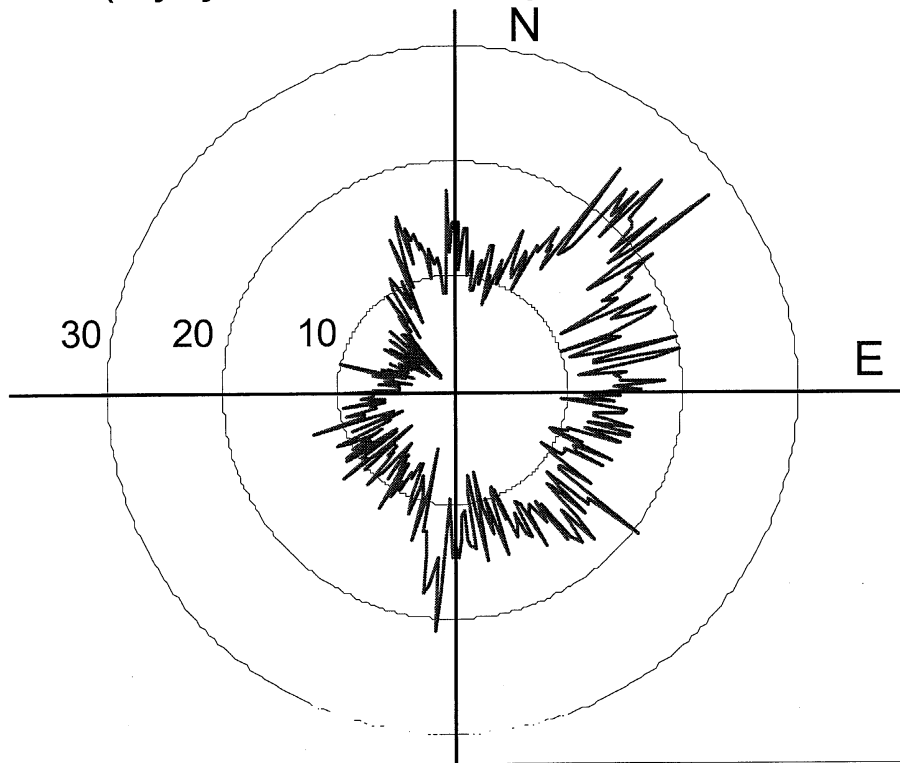
GGNS SITE WIND ROSE,
2002

FIGURE 2.3-3

REV. 1

GGNS Site Wind Rose, 2003

(days/yr wind is from integer degree at 33 ft)



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GGNS SITE WIND ROSE,
2003

FIGURE 2.3-4

REV. 1

DELETED

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EARLY SITE PERMIT APPLICATION
SITE SAFETY ANALYSIS REPORT

FIGURE 2.3-5

REV. 1

DELETED

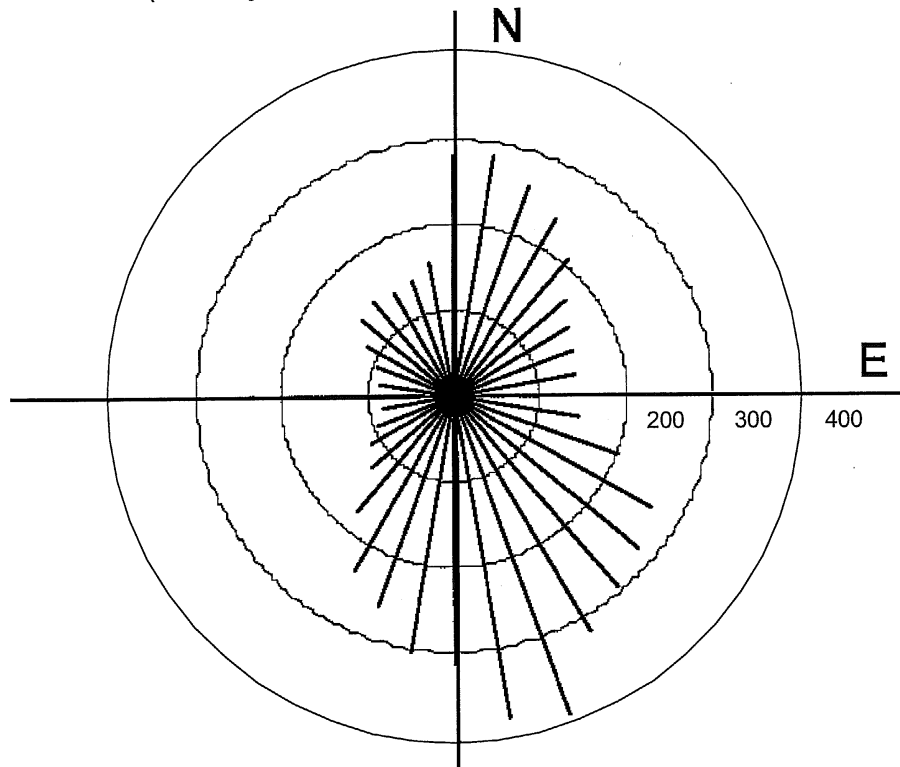
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DELETED

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Vicksburg Wind Rose, 1997-2001

(hours/yr wind is from nearest 10 degrees)



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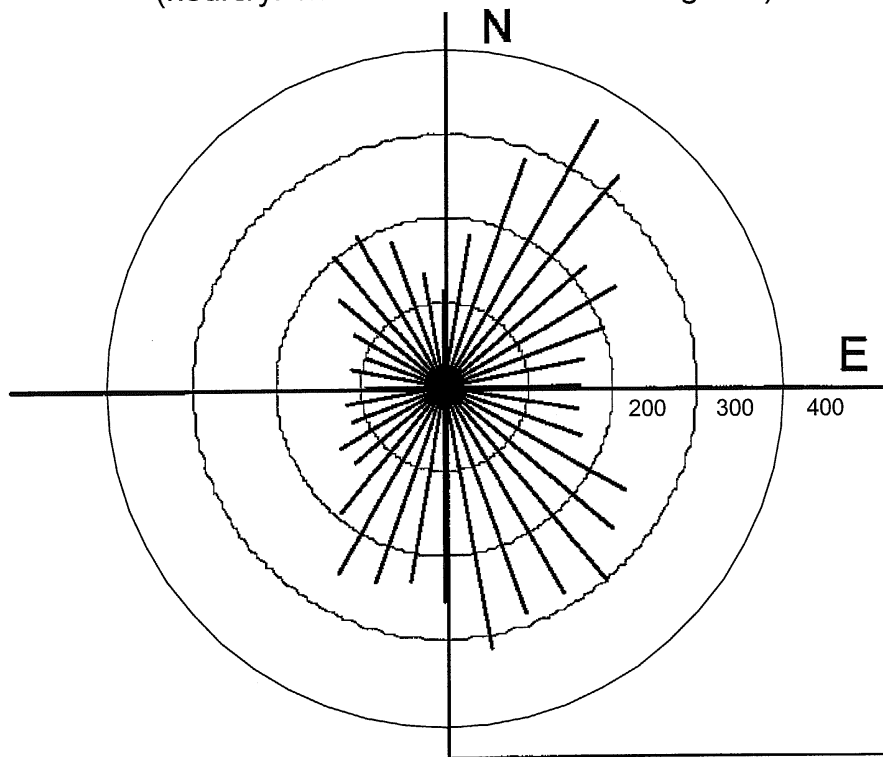
VICKSBURG WIND ROSE,
1997-2001

FIGURE 2.3-8

REV. 1

Vicksburg Wind Rose, 1997

(hours/yr wind is from nearest 10 degrees)



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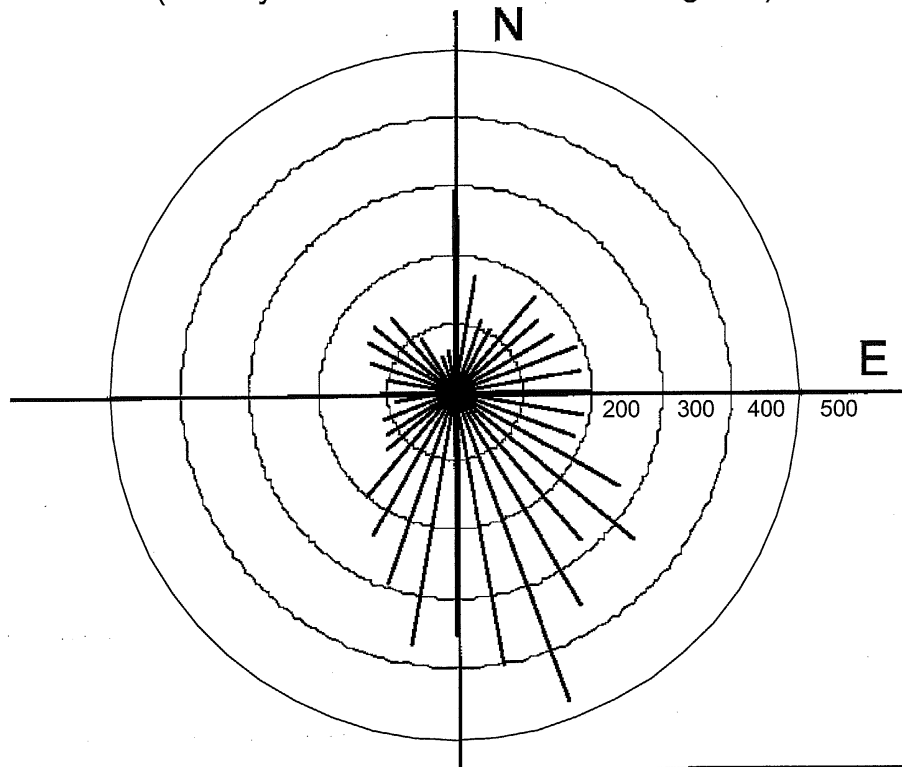
VICKSBURG WIND ROSE,
1997

FIGURE 2.3-9

REV. 1

Vicksburg Wind Rose, 1998

(hours/yr wind is from nearest 10 degrees)



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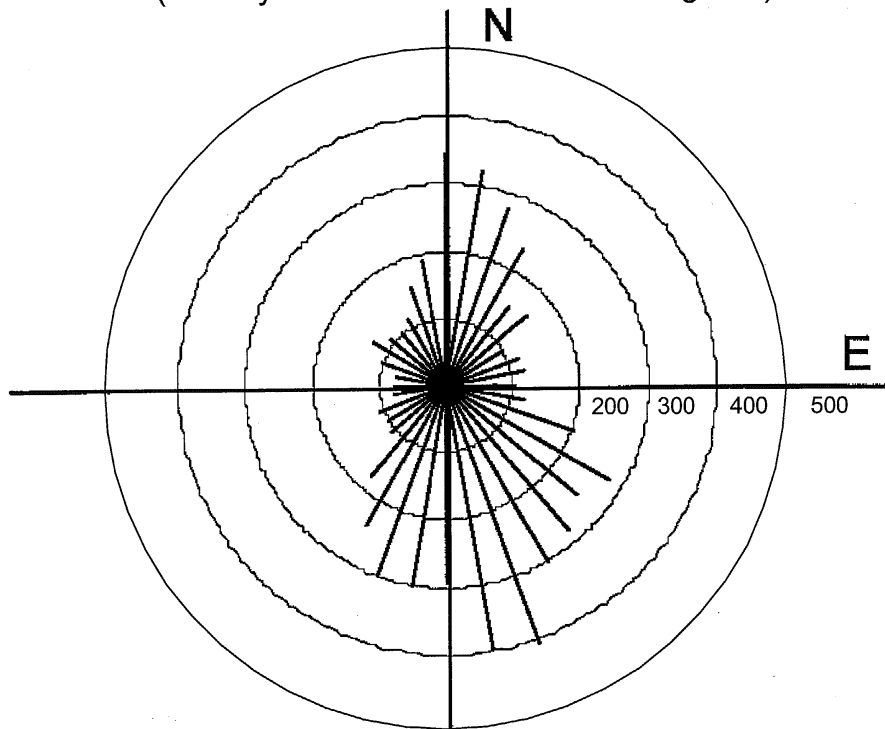
VICKSBURG WIND ROSE,
1998

FIGURE 2.3-10

REV. 1

Vicksburg Wind Rose, 1999

(hours/yr wind is from nearest 10 degrees)



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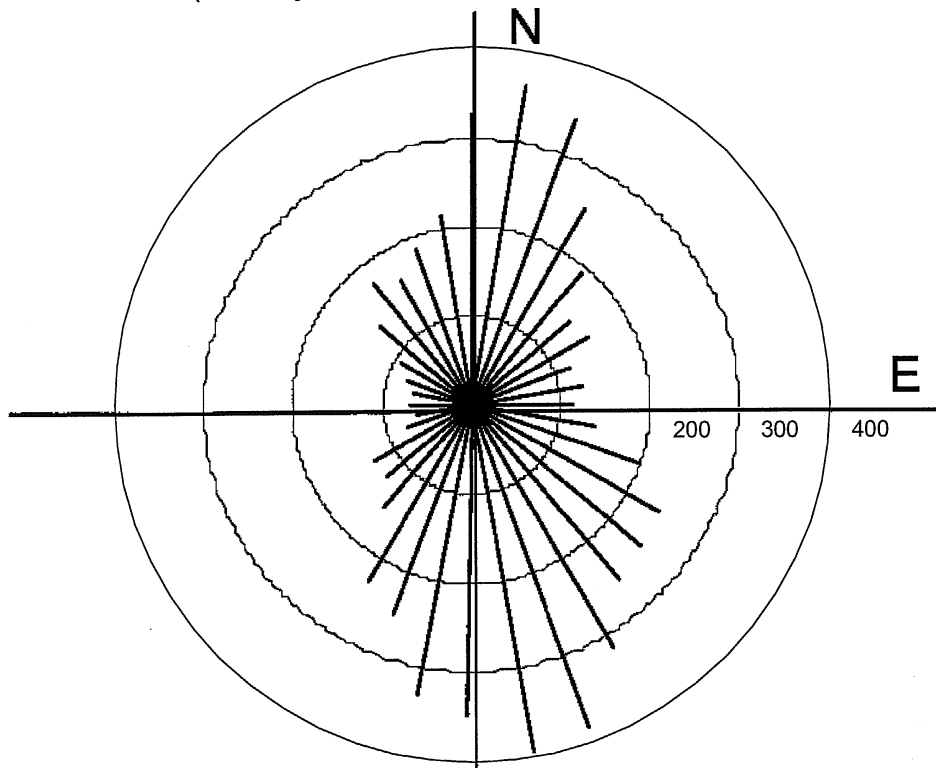
VICKSBURG WIND ROSE,
1999

FIGURE 2.3-11

REV. 1

Vicksburg Wind Rose, 2000

(hours/yr wind is from nearest 10 degrees)



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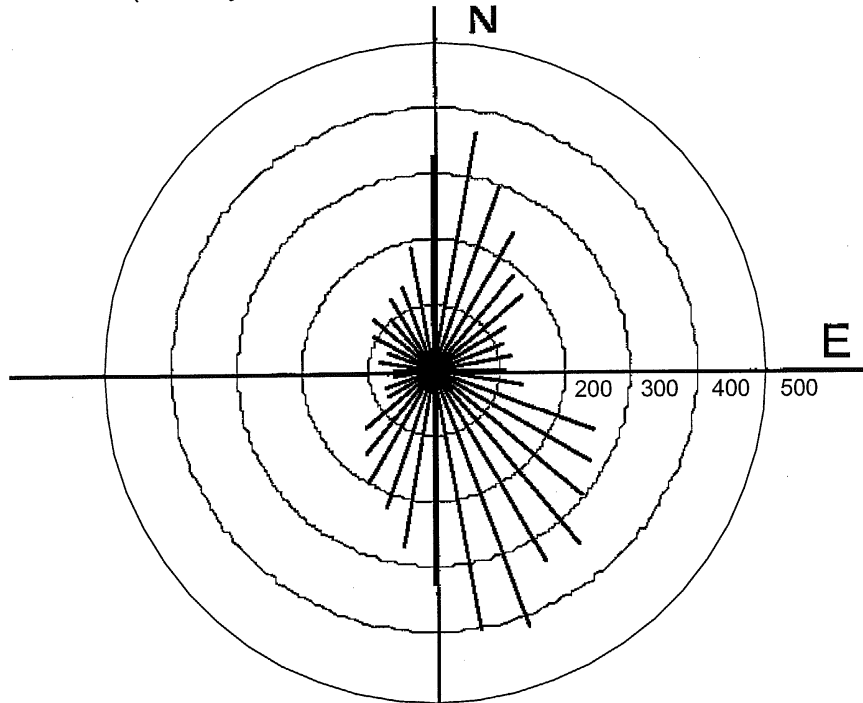
VICKSBURG WIND ROSE,
2000

FIGURE 2.3-12

REV. 1

Vicksburg Wind Rose, 2001

(hours/yr wind is from nearest 10 degrees)



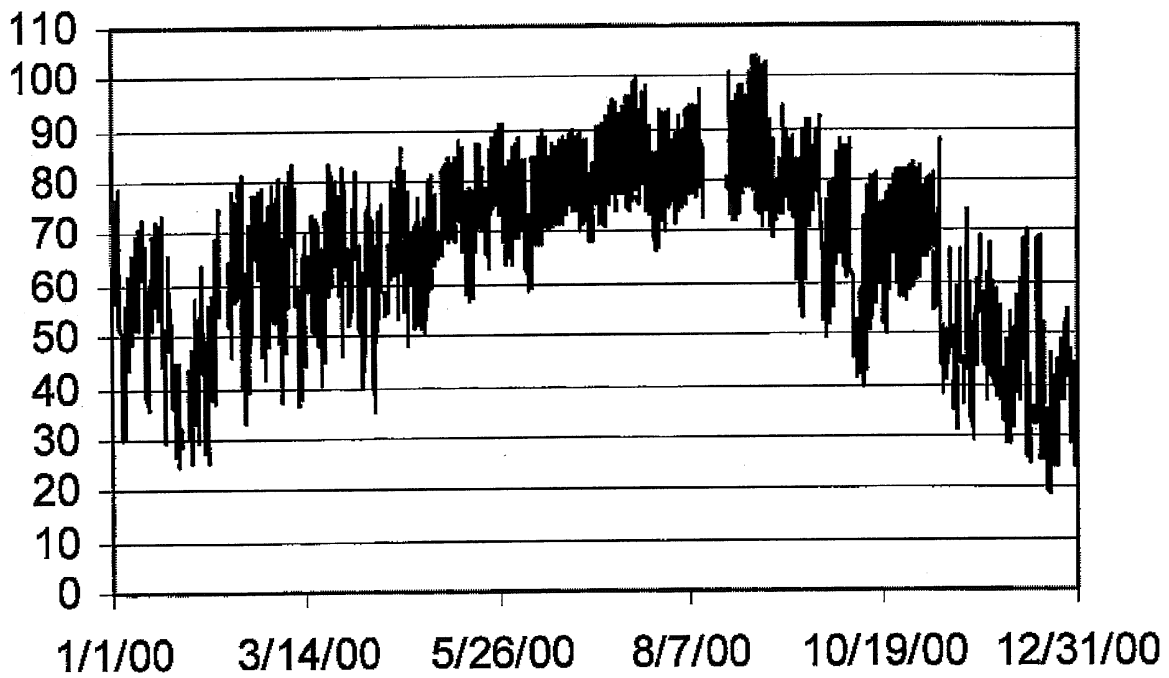
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VICKSBURG WIND ROSE,
2001

FIGURE 2.3-13

REV. 1

2000
Hourly Temperatures (degrees F)



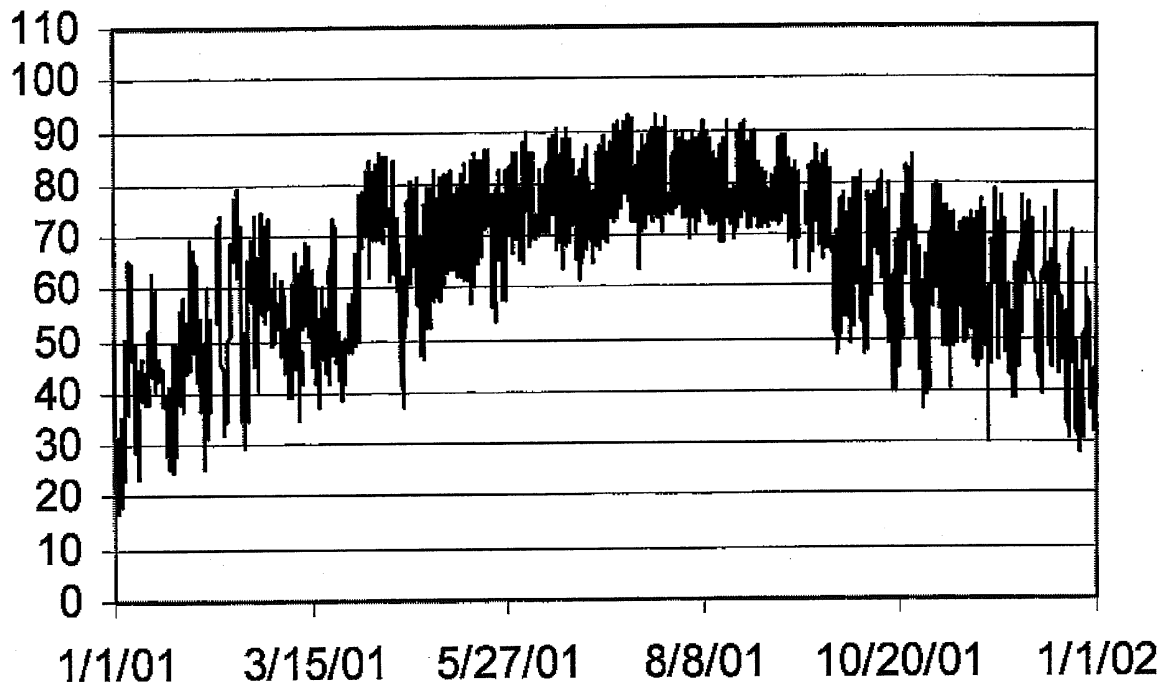
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GGNS SITE 2000
HOURLY TEMPERATURES
(DEGREES F)

FIGURE 2.3-14

REV. 1

Grand Gulf Site 2001 Hourly Temperatures (degrees F)



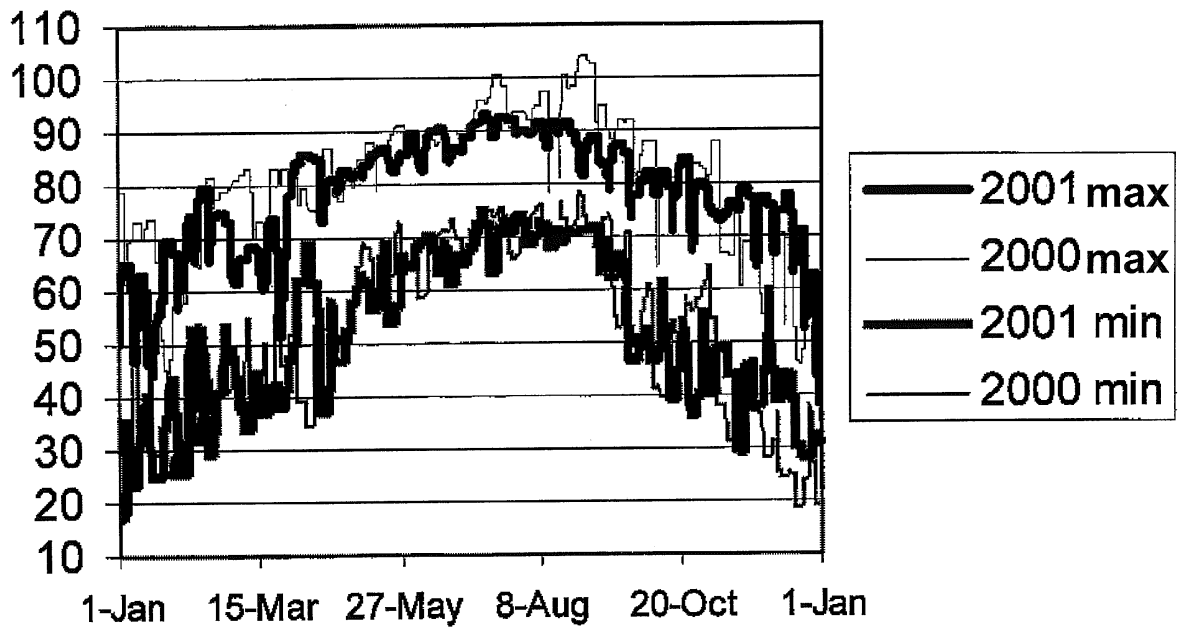
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GGNS SITE 2001
HOURLY TEMPERATURES
(DEGREES F)

FIGURE 2.3-15

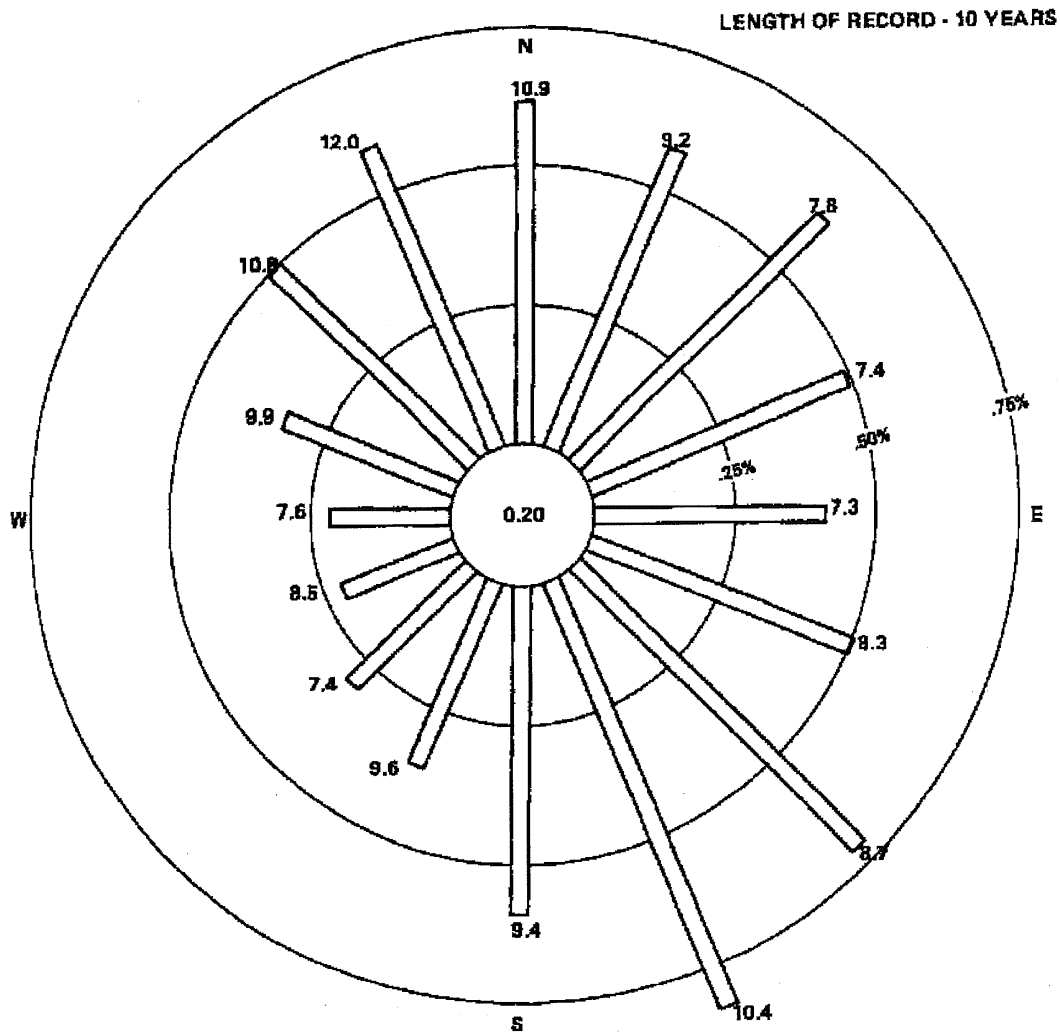
REV. 1

Grand Gulf Site
Maximum and Minimum T for revolving 96 hour periods



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GGNS SITE
MAXIMUM AND MINIMUM TEMPERATURE
FOR REVOLVING 96 HOUR PERIODS



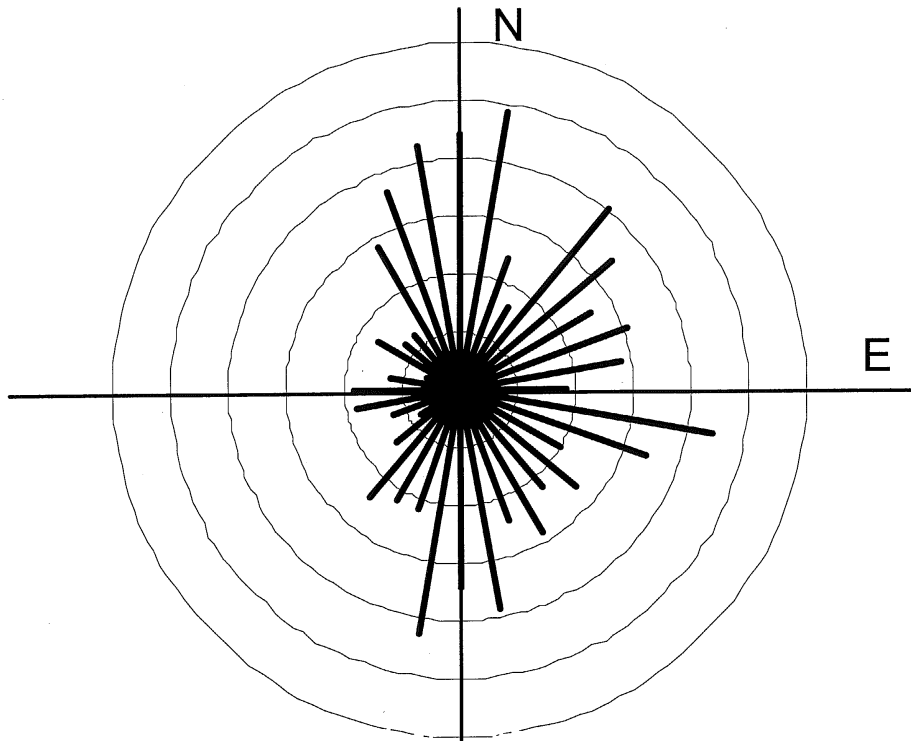
NOTES: THE VALUE IN THE CENTER OF THE INNER CIRCLE GIVES THE PERCENTAGE OF CALM WINDS. DATA WERE PLOTTED IN HUNDREDTHS PRIOR TO ROUNDING FOR TABLE 2.3.65 VALUES AT ENDS OF BARS ARE AVERAGE ANNUAL WIND SPEEDS, BY DIRECTION, DURING PRECIPITATION, IN MILES PER HOUR.

DATA SOURCE: PRECIPITATION AND NON-PRECIPITATION WINDS, JOB NO. 13267, U. S. DEPARTMENT OF COMMERCE, NOAA, NATIONAL CLIMATIC CENTER, FEBRUARY, 1972.

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ANNUAL PRECIPITATION WIND ROSE
 (PERCENT OF TOTAL OBSERVATIONS)
 JACKSON, MISSISSIPPI
 (UFSAR FIGURE 2.3-5)

GGNS Site Precipitation Wind Rose, 2001-2003
(days/yr wind is from integer degree at 33 ft)

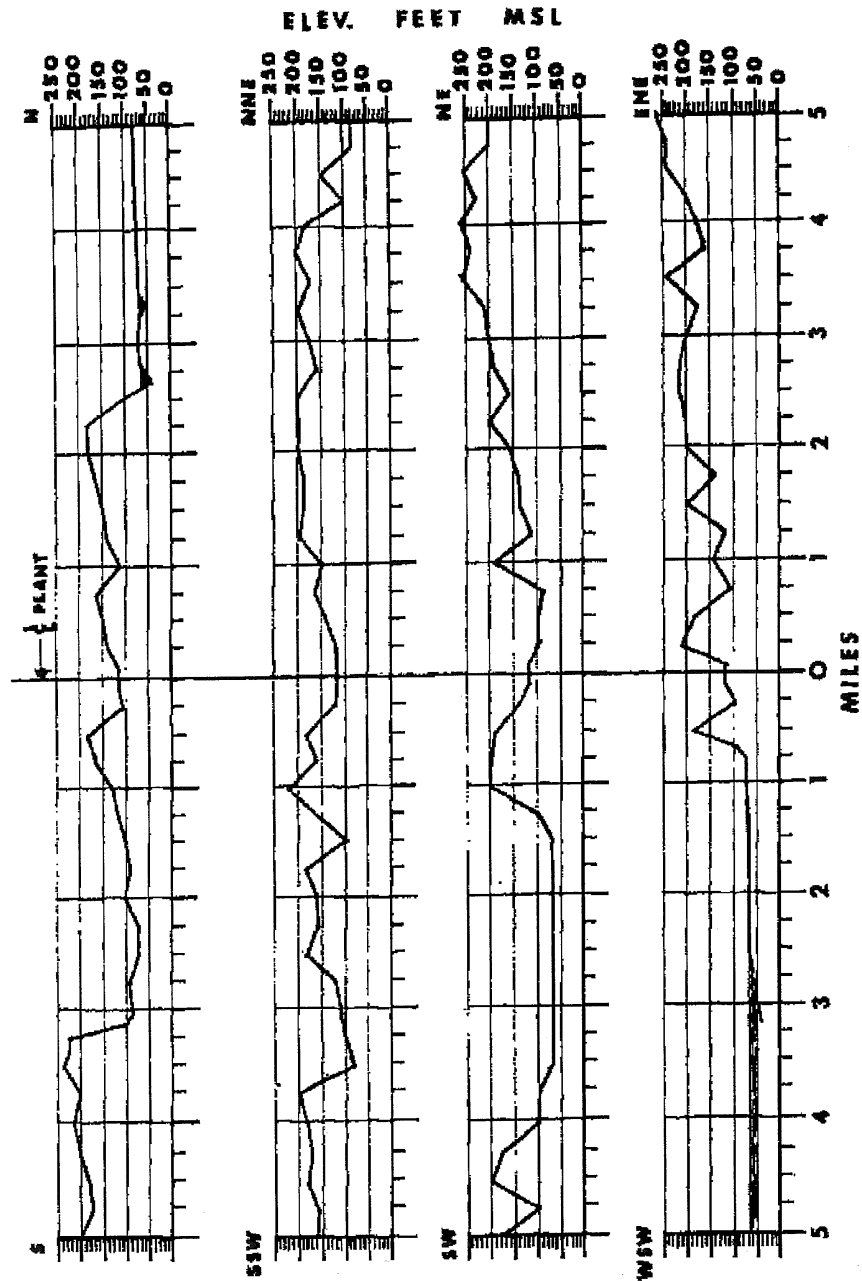


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GGNS SITE PRECIPITATION WIND ROSE,
2000-2003

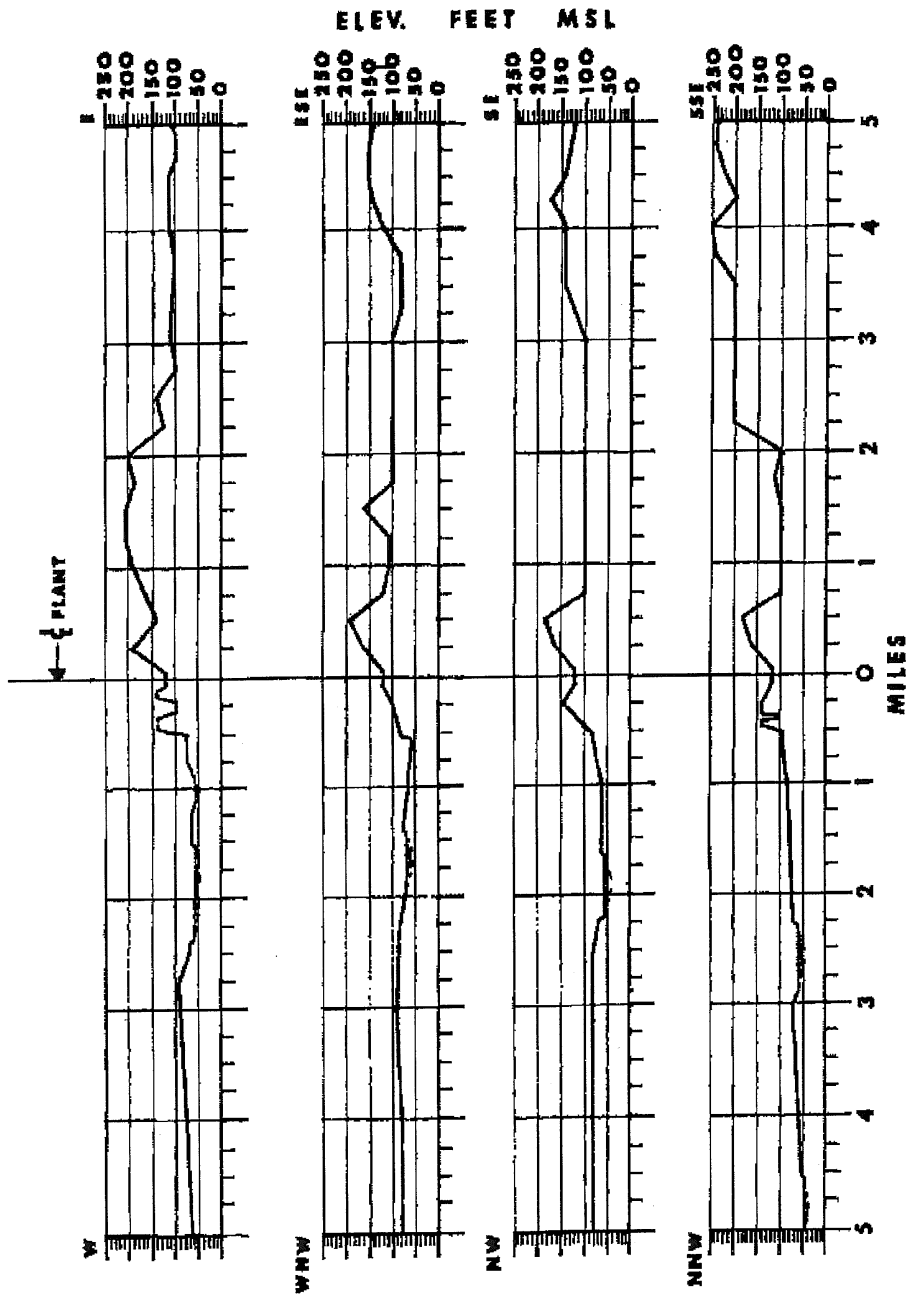
FIGURE 2.3-18

REV. 1



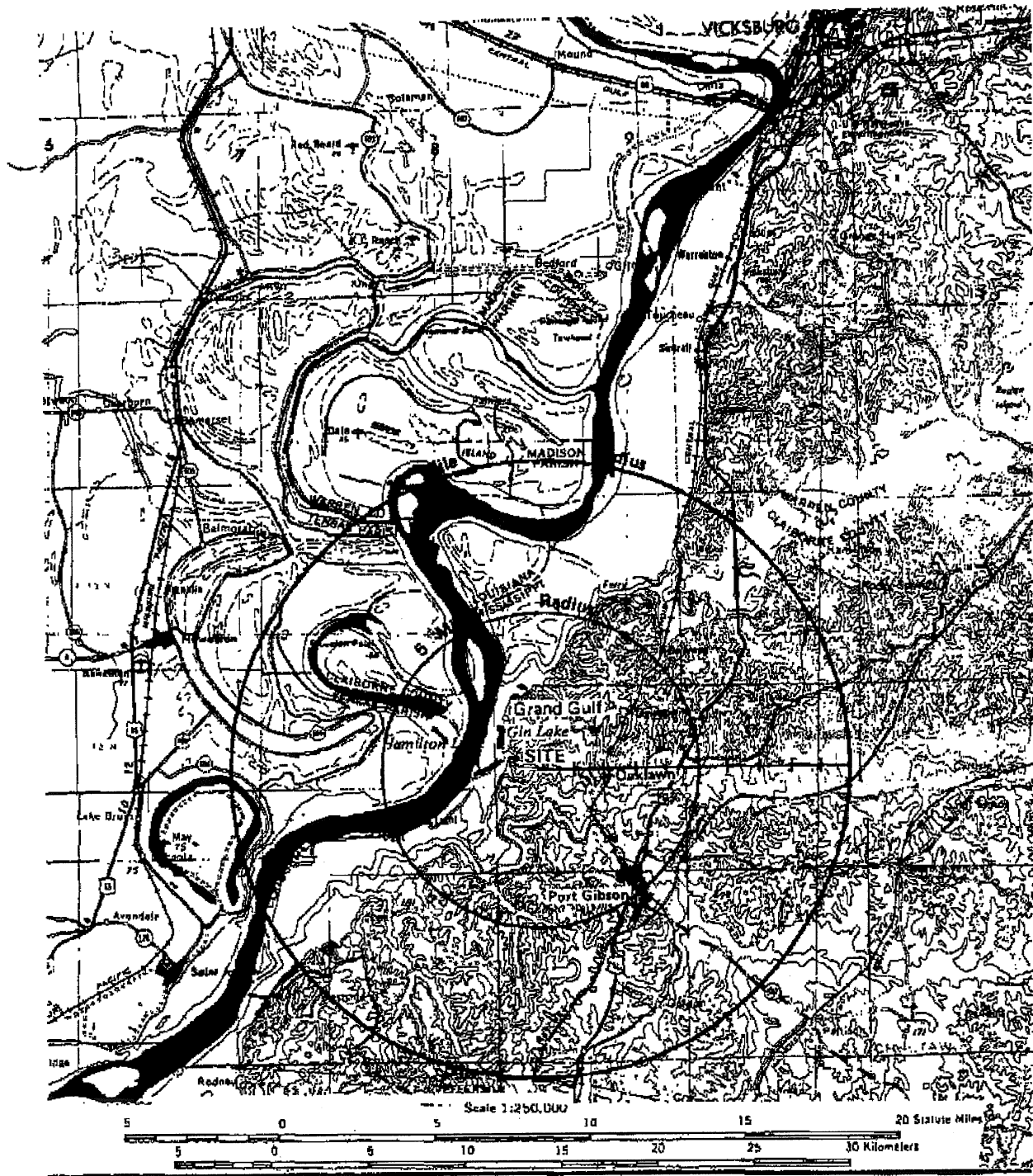
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TOPOGRAPHIC PROFILES
 (UFSAR FIGURE 2.3-8)



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TOPOGRAPHIC PROFILES
 (UFSAR FIGURE 2.3-9)



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