

PDR/CF

RECEIVED

FEB 29 1980

ENV. AFFAIRS

STATE OF GEORGIA

Department of Defense Civil Defense Division

OFFICE OF THE STATE DIRECTOR
POST OFFICE BOX 18055

Atlanta, Ga.
30316



MAJ GEN BILLY M. JONES
DIRECTOR

27 February 1980

Mr. T. E. Byerley
Manager of Environmental Affairs
Georgia Power Company
P. O. Box 4545
Atlanta, Georgia 30302

Dear Mr. Byerley:

Enclosed is the evacuation data for the ten mile emergency planning zone surrounding Vogtle Nuclear Plant. With the exception of less than two square miles of uninhabited river swamp in Richmond County, the entire Georgia portion of the CPZ lies within Burke County

I trust that this information will satisfy the requirements set forth in the Nuclear Regulatory Commission letter of December 26, 1979. Additional assistance on this matter and all future requests for state support in off site Radiological Emergency Planning should be directed to this department.

Sincerely,

Billy M. Jones
BILLY M. JONES
Major General
Director

Attachments:
(as stated)

cc: Bill Cline - DNR/EPD
Wendell Brinson - Field
Coordinator
Wilbur Singley - CDD,
Waynesboro-Burke Co.

8503110626 800227
PDR ADOCK 05000424
F PDR

50-424
50-425

EVACUATION TIME ESTIMATE (AFTER NOTIFICATION)
FOR THE VOGTLE NUCLEAR POWER PLANT

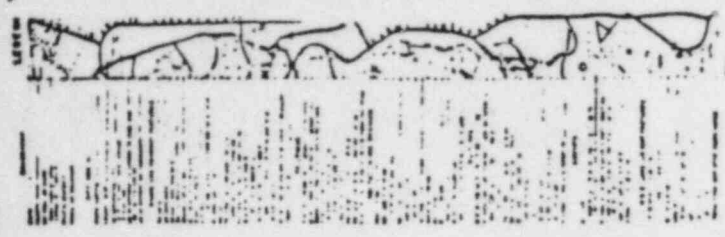
The ten mile EPZ was divided into sectors in accordance with the NRC reporting format. See the attached map.

The estimated times for a general evacuation of the population located within the ten mile EPZ are given in Table I. The following data is referenced to the numbered requirements set forth in the NRC reporting format.

- Item 1. See Table I.
- Item 2. a. The Girard Elementary School with a normal population of 300 is located within the 5-10 mile sector. According to local officials, the school could be evacuated rapidly and within the time listed in Table I.
b. The town of Girard with an estimated population of 350 could be evacuated within the time listed in Table I.
c. No other special facilities are located within the ten mile EPZ.
- Item 3. See Table I.
- Item 4. The Waynesboro-Burke County Civil Defense has an approved emergency operations plan which provides for warning and evacuation.
- Item 5. a. There are no insurmountable obstacles to evacuation in the ten mile EPZ. Hilly, dirt surfaced roads in the SE sector are slick and occasionally impassable during heavy rain, but the problem areas can be avoided. This situation is reflected in the times listed for the "Worst Case Evacuation."
b. The town of Girard with an estimated population of 350 would not require any special consideration for evacuation.
- Item 6. The data was developed by the local Civil Defense Director with the assistance of two members of the CD organization, one of which resides within the ten mile EPZ. First hand knowledge of the subject area, plus experiences with real and exercise emergency operations within the county, provided the background upon which this data is based.

All of the times given for notification and verification are based on the assumption that one to four mobile teams would be employed in the operation. It was further assumed that the actual evacuation would take place by private vehicle and Burke County school buses traveling their normal routes to pick-up persons requiring public transportation.

The local Department of Natural Resources ranger will be responsible for the notification and evacuation of recreationists on the Savannah River.



PLANT VOGTLE

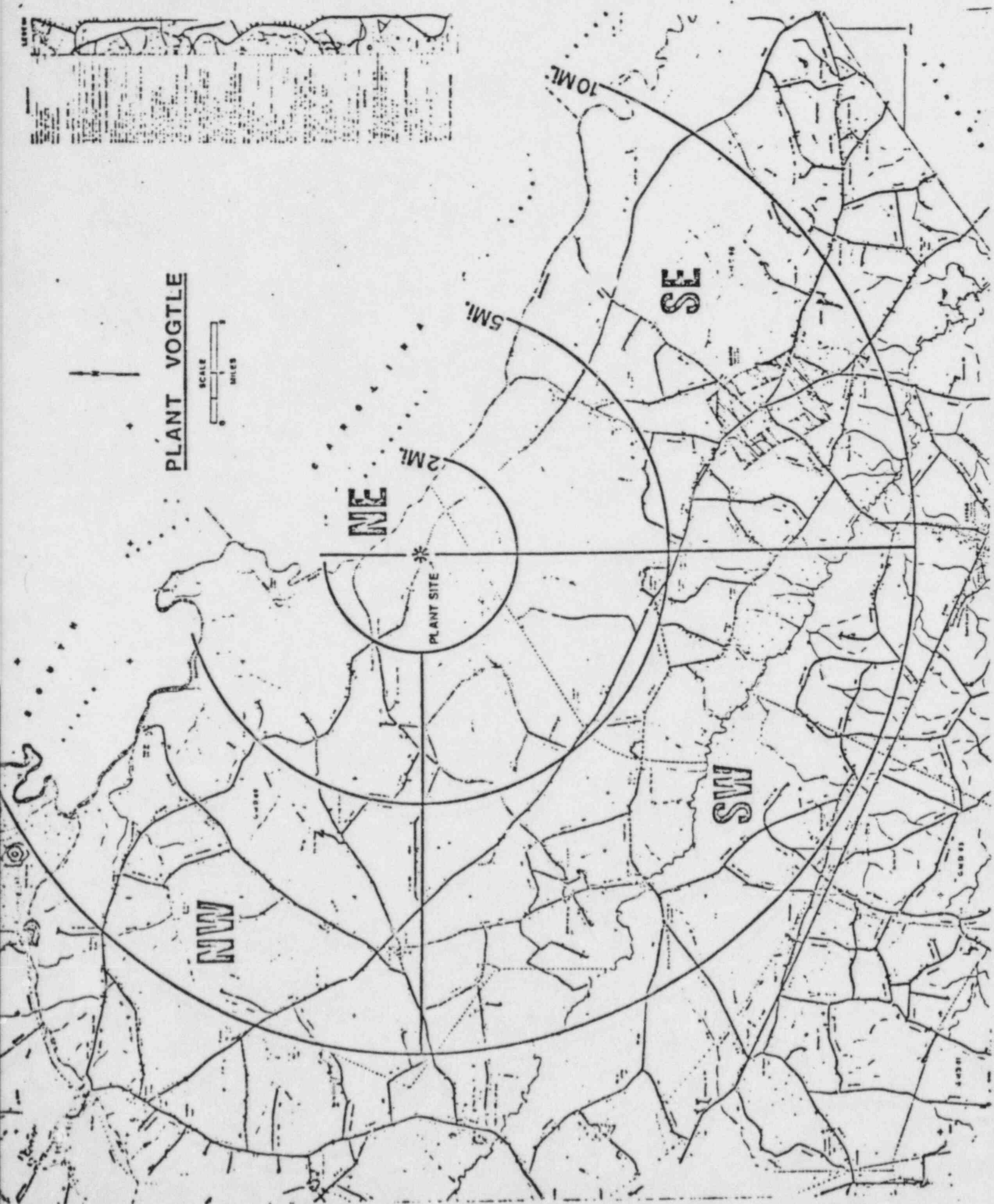


TABLE I

General Evacuation of the Population from the
Plant Vogtle Ten Mile Plume Exposure EPZ

Action	NE (E 180° Sector)			SE			SW			NW (W 180° Sector)		
	2 mi	5 mi	10 mi	2 mi	5 mi	10 mi	2 mi	5 mi	10 mi	2 mi	5 mi	10 mi
Population	10	-	-	-	40	750	-	125	800	300	125	400
Notification	0.5	-	-	-	0.5	2.75	-	0.75	3.0	0.75	0.5	2.0
Day Evacuation	0.25	-	-	-	1.0	3.0	-	1.0	3.0	0.5	0.75	3.0
Worst Case Evacuation	0.75	-	-	-	1.25	4.0	-	1.5	4.0	1.5	1.5	4.0
Confirmation	0.25	-	-	-	0.75	3.0	-	0.5	3.5	0.25	0.5	1.5

Times are given in hours.

- Notes:
1. Population estimates are for specific sectors as identified.
 2. Time requirements are cumulative. That is, the times required for notification, evacuation, and confirmation for the five to ten mile sector assumes that the two and five mile sectors are included.
 3. Sportsmen are not included in the above table. The Savannah River flows through the entire twenty mile diameter of the EPZ and it is impossible to estimate the number of boaters and fishermen likely to be present in any particular sector. It is estimated that as many as 300 sportsmen could be on the river on a good day. It would take approximately two hours to travel the affected stretch of river for notification, and up to three hours to evacuate the river. Confirmation would likewise take approximately two hours.
 4. Approximately 300 of the listed population within the 0-5 mile distance of the NW sector are construction workers and their families which will leave once the plant is completed.

Emergency Planning Zones (EPZ)

The Plant Vogtle Plume Exposure EPZ consists of an area 10 mile radius, centered on the plant, with three regions excluded from the detailed planning process per 10 CFR 50.47(c)(2). These areas, indicated on the attached map, have been excluded from detailed planning primarily due to the absence of any resident population. The areas in Richmond County Georgia, and Aiken County South Carolina (Sector R) have no resident population and there appears to be minimal, if any, resident population in Barnwell and Allendale Counties, South Carolina (Sector F). Planning to assure protection of transient populations in these areas will be accomplished through formal agreements with the appropriate State and/or County governments. The State of South Carolina is in agreement with this approach as documented in their letter to the State of Georgia (January 17, 1984 - attached).