

**ATTACHMENT 2**  
**Grand Gulf Nuclear Station**

## REVISION LOG

Revision	Date	Comments
6	6/30/86	
7	12/30/91	
8	4/95	
8-update	3/96	
8-update	3/97	
9	5/00	
9-update	5/00	
10	10/05	
10-update	6/30/10	
11	1/5/11	Complete update
12	12/2013	Complete update

## ATTACHMENT 2 FOREWORD TENSAS PARISH

This plan, consisting of the General Plan and the Parish Enclosure, has been developed as an operations guide for Tensas Parish in preparing for and conducting local government emergency operations in the event of an incident at Grand Gulf Nuclear Station.

Emergency Implementing Procedures to implement and support functional assignments by the responsible Parish departments/agencies have been developed and are maintained in current status.

This plan shall be revised, updated, tested periodically and maintained in current status to assure a state of maximum readiness for the protection of public health, safety and property.

This Revision to the Radiological Emergency Response Plan for Tensas Parish, State of Louisiana, supersedes all previous editions; Revision 10 is declared official and is effective upon receipt.

APPROVED:



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Homeland Security & Emergency  
Preparedness Coordinator,  
Tensas Parish

**Louisiana Peacetime Radiological Response Plan  
Attachment 2  
Grand Gulf Nuclear Station**

**TABLE OF CONTENTS**

	<u>Page</u>
Revision Log	2
Foreword	3
Table of Contents	4
Attachment 2 NUREG-0654 Cross Reference	6
Acronyms for Attachment 2	10
<b>General Plan</b>	
<b>I. Introduction</b>	
A. Authority	11
B. Purpose	11
C. Development and Organization	11
D. Scope	12
<b>II. Concept of Operation</b>	<b>12</b>
<b>III. Administration</b>	
A. Responsibility	14
B. Review and Revisions	14
C. Distribution	14
<b>IV. Chapters</b>	
1. Emergency Classification System	15
2. Public Education and Information	18
3. Accident Assessment	22

	<b><u>Page</u></b>
Protective Response for the Ingestion Exposure Pathway (50-mile)	
4. Emergency Planning Zone	23
5. Radiological Exposure Control	25
6. Reentry, Recovery, and Return	29
7. Exercises and Drills	30
8. Radiological Emergency Response Training	34

### **Appendices**

A. Accident Notification and Coordination	38
B. Plume Exposure Pathway (10-mile) EPZ Maps	40
C. Ingestion Exposure Pathway (50-mile EPZ Map	48
D. Evacuation Time Estimate	751
E. Radiological Sampling and Monitoring Locations	59
F. Glossary of Terms	62
G. Reference Documents	70

### **Enclosure**

I Tensas Parish Radiological Emergency Response Plan	71
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## ATTACHMENT 2

### NUREG-0654 CROSS REFERENCE

<u>Criteria</u>	<u>Reference</u>
A.1.a	Enclosure I, Section D
A.1.b	Enclosure I, Sections C, D and E
A.1.c	Enclosure I, Figure D-1
A.1.d	Enclosure I, Sections C and D
A.1.e	Enclosure I, Sections E, F.1 and F.2
A.2.a	Attachment 2, Appendix A, Tab A; Enclosure I, Section D and Figure D-2
A.2.b	Attachment 2, Section I.A. Enclosure I, Section B
A.3	LPRRP, Chapter 14, Tab 1; Enclosure I, Appendix I-1
A.4	Enclosure I, Section D
C.1.c	LPRRP, Basic Plan, Section VII; Attachment 2, Section II.M
C.2.a	Enclosure I, Section E.3
C.4	Enclosure I, Section D and Appendix I-1
C.6	Under Development
D.3	Attachment 2, Section IV, Chapter 1 and Tab A to Chapter 1
D.4	Attachment 2, Section IV, Chapter 1, Enclosure I, Section E and Appendix I-2
E.1	Attachment 2, Appendix A, Tabs A and B; Enclosure I, Section E
E.2	Enclosure I, Sections E, F.6 and Appendix I-2
E.5	Attachment 2, Section IV, Chapter 2; Enclosure I, Sections E and F.7
E.6	LPRRP, Chapter 4, Section IV; Enclosure I, Sections G and F.7
E.7	Attachment 2, Section IV, Chapter 2, Tab A; Enclosure I, Section E.5
F.1.a	Enclosure I, Section F
F.1.b	Enclosure I, Section F.2 and Figure F-1
F.1.c	Attachment 2, Section II.G., II.I and Appendix A, Tab A
F.1.d	Enclosure I, Section F.1 and F.2
F.1.e	Enclosure I, Sections E., F.2 through F.6
F.2	Enclosure I, Section F.4 and Figure F-1

<b><u>Criteria</u></b>	<b><u>Reference</u></b>
F.3	LPRRP, Chapter 13, Section IV.A; Attachment 2, Section IV, Chapter 7.B; Enclosure I, Section F.8
G.1.	Attachment 2, Section IV, Chapter 2.B
G.2	LPRRP, Chapter 5, Section IV.A.6; Attachment 2, Section IV, Chapter 2.B
G.3.a	Attachment 2, Section IV, Chapter 2.B
G.4.a	Attachment 2, Section IV, Chapter 2.B, Enclosure I, Section D.1.c
G.4.b	LPRRP, Chapter 5, Section IV.B; Attachment 2, Section IV, Chapter 2.B
G.4.c	LPRRP, Chapter 5, Section IV.B.4; Attachment 2, Section IV, Chapter 2.B
G.5	LPRRP, Chapter 5, Section IV.A.7; Attachment 2, Section IV, Chapter 2.B
H.3	Enclosure I, Section C
H.4	Enclosure I, Section E
H.7	LPRRP, Chapter 6, Tab 3, Paragraph G; Attachment 2, Section IV, Chapter 3.B.2
H.10	LPRRP, Chapter 6, Tab 3, Paragraph G; Attachment 2, Section IV, Chapter 5.B.5
H.11	LPRRP, Chapter 6, Tab 3, Table 1; Attachment 2, Section IV, Chapter 5, Tab A
H.12	LPRRP, Chapter 6, Tab 3, Paragraphs A , E, F and G
I.7	LPRRP, Chapter 6, Tabs 3 and 5
I.8	LPRRP, Chapter 6, Section III and Tab 3; Attachment 2, Section IV, Chapter 3.B.2
I.9	LPRRP, Chapter 6, Tab 3, Paragraph F
I.10	LPRRP, Chapters 6, 7, 8 and 11
J.2	Enclosure I, Section G.3
J.9	Attachment 2, Section IV, Chapter 3.B, Enclosure I, Section G. Attachment 2, Appendix B; Appendix D, Tab D and E Appendix E; Enclosure I, Figures G-1 & G-1a
J.10.a	
J.10.b	Attachment 2, Appendix B, Appendix C, Tab A
J.10.c	Enclosure I, Section E.5 and Section F.7
J.10.d	Enclosure I, Section G.3
J.10.e	LPRRP, Chapter 9, Tab 1; Attachment 2, Section IV, Chapter 5.B.4; Enclosure I, Section D.2
J.10.f	LPRRP, Chapter 9, Section IV.A; Attachment 2, Section IV, Chapter 5.B.4
J.10.g	Attachment 2, Section II.N; Enclosure I, Section G.3

<b><u>Criteria</u></b>	<b><u>Reference</u></b>
J.10.h	Enclosure I, Section G.3, Figures G-1 and G-1a
J.10.i	Attachment 2, Appendix D, Tab A
J.10.j	Enclosure I, Sections D.1.d, D.1.e, D.2.c, G.1 and G.3
J.10.k	Enclosure I, Section D.1.i and Section G.3
J.10.l	Attachment 2, Appendix D, Tab A
J.10.m	LPRRP, Chapter 7, Section IV; Enclosure I, Section G
J.11	LPRRP, Chapter 8; Attachment 2, Chapter 4
J.12	LPRRP, Chapter 9, Section IV; Attachment 2, Section IV, Chapter 5.B; Enclosure I, Sections D.1.f, D.3, G.3 and H.1
K.3.a	Attachment 2, Section IV, Chapter 5
K.3.b	Attachment 2, Section IV, Chapter 5, Enclosure I, Section D
K.4	Attachment 2, Section IV, Chapter 5
K.5.a	Attachment 2, Section IV, Chapter 5
K.5.b	Attachment 2, Section IV, Chapter 5; Tab A; Enclosure I, Section D
L.1	LPRRP, Chapter 10, Tabs 2 and 3; Enclosure I, Section H.2, Appendix I-1
L.4	Enclosure I, Sections D.1.h and H.2; Appendix I-1
M.1	LPRRP, Chapter 11; Attachment 2, Section IV, Chapter 6.B
M.3	LPRRP, Chapter 11; Attachment 2, Section IV, Chapter 6
M.4	LPRRP, Chapter 11, Section III.H
N.1.a	LPRRP, Chapter 13, Section III.A; Attachment 2, Section IV, Chapter 7.B
N.1.b	LPRRP, Chapter 13, Section III.A; Attachment 2, Section IV, Chapter 7.B
N.2.a	LPRRP, Chapter 13, Section IV.A; Attachment 2, Section IV, Chapter 7.B
N.2.c	LPRRP, Chapter 13, Section IV.D; Attachment 2, Section IV, Chapter 7.B
N.2.d	LPRRP, Chapter 13, Section IV.C; Attachment 2, Section IV, Chapter 7.B
N.3.a	LPRRP, Chapter 13, Section V; Attachment 2, Section IV, Chapter 7.B
N.3.b	LPRRP, Chapter 13, Section V; Attachment 2, Section IV, Chapter 7.B
N.3.c	LPRRP, Chapter 13, Section V; Attachment 2, Section IV, Chapter 7.B
N.3.d	LPRRP, Chapter 13, Section V; Attachment 2, Section IV, Chapter 7.B

<b><u>Criteria</u></b>	<b><u>Reference</u></b>
N.3.e	LPRRP, Chapter 13, Section V; Attachment 2, Section IV, Chapter 7.B
N.3.f	LPRRP, Chapter 13, Section V; Attachment 2, Section IV, Chapter 7.B
N.4	LPRRP, Chapter 13, Section III.D; Attachment 2, Section IV, Chapter 7.B
N.5	LPRRP, Chapter 13, Section III.E; Attachment 2, Section IV, Chapter 7.B
O.1	Attachment 2, Section IV, Chapter 8
O.1.b	Attachment 2, Section IV, Chapter 8.B
O.4.a	Attachment 2, Section IV, Chapter 8.B
O.4.d	Attachment 2, Section IV, Chapter 8.B
O.4.f	Attachment 2, Section IV, Chapter 8.B
O.4.g	Attachment 2, Section IV, Chapter 8.B
O.4.h	Attachment 2, Section IV, Chapter 8.B
O.4.j	Attachment 2, Section IV, Chapter 8.B
O.5	Attachment 2, Section IV, Chapter 8
P.1	Attachment 2, Section IV, Chapter 8
P.2	Enclosure I, Section D.1.a
P.3	Enclosure I, Section D.1.c
P.4	Enclosure I, Section D.1.c
P.5	LPRRP, Basic Plan, Section VIII.C
P.6	Attachment 2, Appendix G
P.7	Enclosure I, Appendix I-3
P.8	Attachment 2, TOC, p.4; Attachment 2, Cross Reference, p. 6.
P.10	Enclosure I, Section D.1.c

## Acronyms for Attachment 2

CDE	-	Committed Dose Equivalent
DOE	-	Department of Energy
EAL	-	Emergency Action Level
EAS	-	Emergency Alert System
EBS	-	Emergency Broadcast System
ED	-	Emergency Director
EC	-	Emergency Class
EOC	-	Emergency Operations Center
EOF	-	Emergency Operations Facility
EOI	-	Entergy Operations, Inc.
EPA	-	Environmental Protection Agency
EPZ	-	Emergency Planning Zone
FEMA	-	Federal Emergency Management Agency
GGNS	-	Grand Gulf Nuclear Station
GOHSEP	-	Governor's Office of Homeland Security and Emergency Preparedness
IPZ	-	Ingestion Planning Zone
JIC	-	Joint Information Center
KI	-	Potassium Iodide
LDEQ	-	Louisiana Department of Environmental Quality
LPRRP	-	Louisiana Peacetime Radiological Response Plan
MEMA	-	Mississippi Emergency Management Agency
NRC	-	Nuclear Regulatory Commission
OEP	-	Office of Emergency Preparedness
OHL	-	Operational Hotline
PAG	-	Protective Action Guide
PAS	-	Protective Action Section
PIO	-	Public Information Officer
TEDE	-	Total Effective Dose Equivalent
TLD	-	Thermoluminescent Dosimeter

# ATTACHMENT 2

## I. Introduction

### A. Authority

#### 1. State

- a. The Louisiana Homeland Security and Emergency Assistance and Disaster Act
- b. The Louisiana Environmental Quality Act, La. R. S. 30:2001 et seq.

#### 2. Local

Authority for Parish planning and emergency preparedness is consistent with and pursuant to the provisions of the Tensas Parish Police Jury Ordinances for Emergency Preparedness.

#### 3. Federal

- a. Federal Civil Defense Act of 1950, as amended 50 USCA App.2251 et seq.
- b. Stafford Disaster Relief and Emergency Assistance Act, P. L. 101-707

### B. Purpose

This Attachment is intended to serve as a tool and reference for emergency actions and procedures in response to a fixed nuclear facility accident at Entergy Operations, Inc. (EOI) Grand Gulf Nuclear Station (GGNS) near Port Gibson, Mississippi. The information is solely for utilization by governing officials of Tensas Parish. As such, it will allow for an integrated, comprehensive and efficient response of State and local government and EOI in the event of a radiological accident at GGNS. The Concept of Operation is purposefully outlined to ensure protection of the health, safety and welfare of the populace, both resident and transient, within the risk areas of Tensas Parish.

### C. Development and Organization

This second attachment to the "Louisiana Peacetime Radiological Response Plan" (LPRRP) is for EOI's GGNS near Port Gibson, Mississippi. It has been developed by the Homeland Security and Emergency Preparedness Office of Tensas Parish. Preparation of this Attachment was coordinated by the Louisiana Department of Environmental Quality (LDEQ).

The content of this Attachment has been developed in accordance with the guidelines of the LPRRP and the criteria set forth by the Federal

Emergency Management Agency (FEMA) in its document, NUREG-0654/FEMA-REP-1, Revision 1, entitled "Criteria for Preparation and Evaluation of Radiological Emergency Response Plans and Preparedness in Support of Nuclear Power Plants," November, 1980.

This Attachment has been arranged in two major divisions, a General Plan section and an Enclosure section. The General Plan includes all that information which is generic to GGNS. The Enclosure section is comprised of the Tensas Parish Radiological Emergency Response Plan. The nature of the information included in the Enclosure section tends to be Parish specific.

D. Scope

This Attachment provides the basis for the coordination of offsite emergency response by State and local government and EOI. It has been designed so that the planning measures are detailed for response from the onset of an incident to its termination and recovery. It is intended to be comprehensive; i.e., the information included will allow for rapid and appropriate protective measures to safeguard the public in the event of an accident, regardless of its severity. Particular attention has been paid to the areas of notification, methods and procedures, emergency communication, public information and education, and exercises and drills. Although every effort has been made to produce a thorough and accurate document, revisions will be made continually throughout the operational life of the Grand Gulf Nuclear Station, as needed and appropriate.

## II. Concept of Operation

- A. The information in this Attachment is organized into a General Plan portion of generic information to GGNS and an individual Enclosure of specific information for Tensas Parish. Therefore, by design, the Parish will have its specific Enclosure in combination with the General Plan which together will provide all the information necessary to meet the requirements of NUREG-0654/FEMA-REP-1, Rev. 1.
- B. EOI, as licensee for GGNS, will provide initial notification and all follow up notifications pursuant to any radiological accident or potential accident, including its termination and final plant status.
- C. Any event or sequence of events which occur at GGNS that could impact the populace in the area offsite from the plant will be classified according to established Federal (FEMA and NRC) guidelines; i.e., one of the Emergency Classes (ECLs) Notification of Unusual Event, Alert, Site Area Emergency, or General Emergency will be declared as appropriate to the situation.

- D. GGNS will activate its emergency centers--the Technical Support Center (TSC), the Operational Support Center (OSC), and the Emergency Operations Facility (EOF)--when required, based on accident severity. Coordination with Parish and State government will be continuous through the use of communication networks and contact with liaison personnel.
- E. In the event of an accident at GGNS, LDEQ is tasked with offsite radiological monitoring and analysis and protective action recommendations. Recommendations are formulated in conjunction with technical accident information from GGNS.
- F. Protective action recommendations may be issued at the Alert, Site Area Emergency, or General Emergency EC.
- G. Federal technical support will be called upon and coordinated through LDEQ.
- H. GOHSEP will activate the State Emergency Operations Center (EOC) when required and coordinate all State resources through the appropriate agencies of the State.
- I. Federal operational support will be called upon and coordinated through GOHSEP.
- J. The Governor may preempt local governments as primary legal authority if a State "Declaration of Emergency" is issued.
- K. In the event of an accident, the Tensas Parish government is responsible for the safety and welfare of Parish citizens, and may implement this response plan as conditions warrant.
- L. An accident at GGNS may require protective actions involving only portions of Tensas Parish.
- M. All available Parish resources will be utilized as necessary. If Parish resources are expended and/or the situation involves other jurisdictions, State emergency plans will be implemented to provide additional resources and support.
- N. Privately owned vehicles will be the primary mode of transportation if evacuation is necessary.
- O. Emergency Planning Zones (EPZs) for both the Plume Exposure (10-mile) and Ingestion Exposure (50-mile) Pathways are established. The Plume Exposure Pathway (10-mile) EPZ is further divided into zones of 2, 5 and 10 miles and into Protective Action Sections (PASs). This partitioning of the 10-mile EPZ allows for maximum flexibility of decision making for protective

response measures. Within the Ingestion Exposure Pathway (50-mile) EPZ, all probable routes of food chain contamination (e.g., food crops, livestock, drinking water, etc.) will be identified so that appropriate protective responses can be implemented.

### **III. Administration**

#### **A. Responsibility**

The responsibility for the development, maintenance and revision of this Attachment lies with the Tensas Parish Office of Emergency Preparedness in conjunction with LDEQ and GOHSEP.

#### **B. Review and Revision**

All information contained within this Attachment will be reviewed annually by the Tensas Parish Office of Homeland Security and Emergency Preparedness. Any additions/deletions or recommendations will be forwarded to LDEQ and GOHSEP for review. Proposed revisions to this Attachment will be considered by the LDEQ, GOHSEP and EOI. Upon acceptance, the new information will be incorporated into this Attachment and all revised or new material will then be distributed as appropriate. Revised pages will be dated to show changes have been made.

#### **C. Distribution**

The Emergency Director (ED) of the Tensas Parish Office of Emergency Preparedness (OEP) has the authority to distribute uncontrolled copies of this Attachment to Parish or emergency staff officials and others with responsibility for its implementation. The ED is, in addition, responsible for maintaining a complete and current Parish distribution list. LDEQ is responsible for the controlled distribution of the LPRRP to include this Attachment as appropriate.

## IV. Chapters

### CHAPTER 1

#### **Emergency Classification System**

##### **A. Purpose**

A gradation of Emergency Classes (ECLs) based on Emergency Action Levels (EALs), as established by FEMA and NRC in their planning guidance document, "Criteria for Preparation and Evaluation of Radiological Emergency Response Plans and Preparedness in Support of Nuclear Power Plants" (NUREG-0654/FEMA-REP-1, Rev. 1), is utilized to provide for early and prompt notification of an accident to Tensas Parish response organizations and to assure that adequate opportunity is provided for preparatory actions prior to any offsite impact of an accident.

##### **B. Concept of Operations**

1. The EC (See Tab A - Emergency Classes) will be included with the initial and all follow-up notification message information provided to Tensas Parish.
2. Tensas Parish will take initial preparatory actions consistent with the guidelines for their emergency response organizations established in their plans (Enclosure I) and implementing procedures. Subsequent actions will be taken in accordance with the ECL, the technical information from GGNS, and the protective response recommendations of LDEQ.

## **TAB A TO CHAPTER 1**

### **Emergency Classes**

#### **I. Notification of Unusual Event**

##### A. Description

Unusual events are in process or have occurred which indicate a potential degradation of the level of safety of the plant. No releases of radioactive material requiring offsite response or monitoring are expected unless further degradation of safety systems occurs.

##### B. Purpose

Purpose of offsite notification is to (1) assure that the first step in any response later found to be necessary has been carried out, (2) bring the operating staff to a state of readiness, and (3) provide systematic handling of unusual events information and decision-making.

#### **II. Alert**

##### A. Description

Events are in process or have occurred which involve an actual or potential substantial degradation of the level of safety of the plant. Any releases are expected to be limited to small fractions of the EPA Protective Action Guideline exposure levels.

##### B. Purpose

Purpose of alert declaration is to (1) assure that emergency personnel are readily available to respond if situation becomes more serious or to perform confirmatory radiation monitoring if required, and (2) provide offsite authorities current status information.

#### **III. Site Area Emergency**

##### A. Description

Events are in process or have occurred which involve actual or likely major failures of plant functions needed for protection of the public. Any releases are not expected to exceed EPA Protective Action Guideline exposure levels except near site boundary.

##### B. Purpose

Purpose of the site area emergency declaration is to (1) assure that response centers are manned, (2) assure that monitoring teams are dispatched, (3) assure that personnel required for evacuation of near-site areas are at duty stations if situation becomes more serious, (4) provide consultation with offsite authorities, and (5) provide updates for the public through offsite authorities.

#### **IV. General Emergency**

##### **A. Description \***

Events are in process or have occurred which involve actual or imminent substantial core degradation or melting with potential for loss of containment integrity. Releases can be reasonably expected to exceed EPA Protective Action Guideline exposure levels offsite for more than the immediate site area.

##### **B. Purpose**

Purpose of the general emergency declaration is to (1) initiate predetermined protective actions for the public, (2) provide continuous assessment of information from licensee and offsite organization measurements, (3) initiate additional measures as indicated by actual or potential releases, (4) provide consultation with offsite authorities and (5) provide updates for the public through offsite authorities.

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\*"Criteria for Preparation and Evaluation of Radiological Emergency Response Plans and Preparedness in Support of Nuclear Power Plants" (NUREG-0654 FEMA-REP-1, Rev 1, November, 1980)

## CHAPTER 2

### **Public Education and Information**

#### **A. Purpose**

To develop an ongoing educational program related to emergency response for GGNS and, in the event of a radiological accident, a procedure for the timely release of accurate and pertinent information to the public and the news media.

#### **B. Concept of Operation**

##### 1. Educational Program

- a. LDEQ will coordinate with GOHSEP, Tensas Parish, and EOI in an ongoing annual program to acquaint the public on how they will be notified of an accident at GGNS and what their actions should be. This will include:
  - i. educational information on radiation,
  - ii. points of contact for additional information,
  - iii. emergency planning zones,
  - iv. protective action sections,
  - v. protective measures including evacuation routes,
  - vi. reception centers,
  - vii. sheltering,
  - viii. respiratory protection,
  - ix. transportation availability, and
  - x. special needs of the handicapped will be identified.
- b. The information will be distributed by mailing an informational calendar directed at individual residences and commercial businesses throughout the 10-mile EPZ.
- c. Transients
  - i. Emergency information for transient people will be in buildings, visitor centers, and retail outlets in the 10-mile EPZ.
  - ii. The Parish emergency officials will determine the locations to supply with this material.
  - iii. Each January, the locations will be reviewed for efficacy and changed as needed and the information updated.
- d. Media
  - i. LDEQ, GOHSEP, Tensas Parish, and EOI will conduct an

annual program to acquaint the news media with the emergency plan, radiation information, and points of contact for the release of public information.

- ii. EOI provides an annual mail out that includes the GGNS informational calendar, a GGNS press kit and media instructions for obtaining information relating to GGNS.

## 2. Information Release

- a. A public information program, designed for persons living, working and traveling in risk areas of Tensas Parish, will be developed and annually updated by LDEQ and GOHSEP with Parish assistance.
- b. Emergency public information will be available in the 'Emergency Public Information Calendar' and is intended to support information from the Emergency Alert System (EAS/formerly EBS).\*
- c. EAS messages for Tensas Parish will be coordinated with Claiborne County and the State EOC. The radio stations KNOE-AM and KNOE-FM have been designated as the primary emergency alert stations.
- d. The Alert and Notification System will be activated by the Tensas Parish Sheriff's Office under the direction of the EPC when conditions at GGNS warrant protective actions for the general public. Once the decision is made to activate the Alert and Notification System, the ED will verify that the EAS is on standby and ready to broadcast prepared messages.
- e. Continuing information will be provided through the EAS, during the emergency to inform the public of the nature and severity of the accident and protective actions.
- f. The Tensas Parish OEP EMERGENCY DIRECTOR will be responsible for recommendations and support to LDEQ and GOHSEP for the advance development of prepared messages designed for dissemination over the EAS at the time of an emergency. These messages will provide specific emergency instructions based on the protective actions being taken. (See Tab A to Chapter 2, EAS Message Listing.)
- g. The Police Jury President or Mayor or his designated Public Information Officer (PIO) will serve as the Parish spokesperson and will release emergency public information to the news media at the time of an accident.
- h. News releases will be coordinated among Tensas Parish, Claiborne County, the State of Mississippi and the State of Louisiana, through the Joint Information Center (JIC), operated by GGNS and located at

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\*The terminology is effective Nov, 10, 1994. It must be implemented by July, 1997 based on FCC Guidelines.

1340 Echelon Parkway, Jackson, Mississippi.

- i. Media phone queries will be directed to the JIC. The telephone number is published in the yearly public calendar and on Entergy press releases during an event.
- j. The Joint Information Center (JIC), operated by GGNS, performs rumor control.
  - i. Rumor control will be coordinated by the Tensas Parish Spokesperson and Parish PIO in conjunction with the State and utility.
  - ii. The telephone number is published in the yearly public calendar and on Entergy press releases during an event.

## **TAB A TO CHAPTER 2**

### **EAS Message Listing<sup>\*</sup>**

Shelter Animals Message

Shelter Message

Evacuation Message

Evacuation and Shelter Message

Evacuation Follow-Up/School Information Message

Temporary Re-entry Message

All Clear Message

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<sup>3</sup>Actual messages have been developed as part of the implementing procedures, and are included with them.

## **CHAPTER 3**

### **Accident Assessment**

#### **A. Purpose**

The following establishes the process by which an accident at GGNS will be assessed to determine if protective action is necessary, and if so the method in which the protective action would be recommended to Tensas Parish.

#### **B. Concept of Operation**

##### **1. State Responsibility**

- a. Chapter 6 of the LPRRP assigns responsibility for accident assessment solely to the Louisiana Department of Environmental Quality (LDEQ). Assessment of a radiological accident at GGNS will be made based on technical information received from GGNS which includes, but is not limited to, plant status, emergency classification, time of initiation of release (if any), type of release, actual or projected dose rates, meteorological conditions, and predicted duration of existing conditions. In conjunction with GGNS, protective action recommendations will be formulated and transmitted to Tensas Parish as appropriate.
- b. LDEQ is assigned the responsibility for radiological monitoring, sample collection, and analyses and will supply and maintain its own specialized equipment and modes of transportation.
- c. The Plume Exposure Pathway (10-mile) EPZ has been partitioned into 16 Protective Action Sections (PASs). The PASs have been delineated for ease of public recognition on the basis of jurisdictional boundaries, roads and intersections, bodies of water and other natural landmarks, where possible, and also corresponding to approximate distances of 0-2, 2-5 and 5-10 miles from GGNS. Protective action recommendations from LDEQ will be given to Tensas Parish in terms of these PASs. (Refer to Appendix B, Tab A for a map.)

##### **2. Parish Responsibility**

- a. Tensas Parish has no responsibility in accident assessment but is expected to carry out protective response measures based on the recommendations from LDEQ.
- b. Actual protective action(s) taken by Tensas Parish is solely the responsibility of the Parish government.

## **CHAPTER 4**

### **Protective Response for the Ingestion Exposure Pathway (50-mile) Emergency Planning Zone**

#### **A. Purpose**

To establish what degree of involvement the Parishes of Louisiana and the Counties of Mississippi, which comprise the Ingestion Exposure Pathway (50-mile) EPZ, will have in the protective response measures of the State of Louisiana and the State of Mississippi.

#### **B. Concept of Operation**

1. All those Parishes and Counties comprising the Ingestion Exposure Pathway (50-mile EPZ) will be notified at the time of an accident at GGNS (see Tab A - Parish and County Listing for the Ingestion Exposure Pathway (50-mile EPZ).
2. LDEQ will notify Tensas Parish of any protective response recommendations concerning food, water, animal feed or livestock.
3. GOHSEP will notify the Parishes (other than Tensas) and the Mississippi Emergency Management Agency (MEMA) will notify the Counties within the 50-mile EPZ of the protective response recommendations concerning food, water, animal feed or livestock. GOHSEP and MEMA may also utilize an EAS message to notify the agricultural community of information on the protection of livestock and crops during an accident.
4. LDEQ and the Mississippi Department of Health will coordinate with their respective local officials all sampling and monitoring activities in the 50-mile EPZ.
5. The decision to relax protective action(s) within the 50-mile EPZ will be made using the same criteria and decision procedures as the recommendation(s) to implement the initial action(s) (refer to the LPRRP, Chapter 8, Protective Response for the Ingestion Exposure Pathway and the Mississippi Emergency Operations Plan, Annex K, Agricultural Services).

## TAB A TO CHAPTER 4

### **Parish and County Listing for the Ingestion Exposure Pathway (50-mile) EPZ**

50-mile EPZ Comprises 8 Louisiana Parishes and 16 Mississippi Counties

#### Louisiana (Parishes)

Catahoula	Madison
Concordia	Richland
East Carroll	Tensas*
Franklin	West Carroll

#### Mississippi (Counties)

Adams	Lincoln
Amite	Madison
Claiborne*	Rankin
Copiah	Sharkey
Franklin	Simpson
Hinds	Warren
Issaquena	Wilkinson
Jefferson	Yazoo

\* These parishes and counties are also within the 10-mile EPZ.

## **CHAPTER 5**

### **Radiological Exposure Control**

#### **A. Purpose**

To establish methods and procedures for the protection of the public and emergency workers in Tensas Parish from radiological exposure in the event of a radiological accident at GGNS.

#### **B. Concept of Operation**

##### 1. General

- a. Tensas Parish will implement radiological exposure control measures based upon recommendations provided by LDEQ and will report resource requirements to GOHSEP.
- b. At the time of a radiological accident at GGNS, LDEQ will make recommendations for protective action(s) for members of the general public and emergency workers to the Tensas Parish Police Jury President. These recommendations will be based on the following:
  - i. Guidance from the U. S. Environmental Protection Agency (EPA) given in the 'Manual of Protective Action Guides and Protective Actions for Nuclear Accidents' (EPA 400/R-92/001, revised May, 1992).
  - ii. Information from GGNS concerning the nature of the accident, radiological consequences (if any), duration of any radiological release and its potential offsite doses, meteorological conditions, and updates on plant status. (For complete listing of information received from GGNS, refer to Chapter 2 of the LPRRP.)
  - iii. 'In house' (and/or independent) dose projections determined for any radiological release.
  - iv. Planning guidance for Tensas Parish as outlined in the LPRRP (Chapter 6) and the Tensas Parish Radiological Defense Officer Emergency Implementing Procedure and the individual vehicle and personnel monitoring and decontamination station procedures.

- c. All surveying and decontamination, for members of the public, will take place at reception centers which will be established within Franklin, Concordia and Madison Parishes at the time of an accident. Persons with a reading of 0.1 mR/hr and higher above background or a reading of 300 CPM and higher will be considered to be contaminated. Tensas Parish does not have a designated reception center, and will not be responsible for surveying or decontamination of members of the general public.

Monitoring and decontamination station layouts can be located in the Tensas Parish Radiological Defense Officer Emergency Implementing Procedure. Details of the monitoring or decontamination processes can be located in the individual vehicle and personnel monitoring and decontamination station operations procedures.

- d. Arrangements will be made for the acquisition, distribution and use of KI at the time of an accident. The use of KI as a thyroid-blocking agent will be considered for emergency workers and for institutionalized persons who may not be able to evacuate immediately. (Refer to Chapter 9 of the LPRRP, Radiological Exposure Control.)
- e. The dosimetry and survey meters which may be used to support a radiological emergency operation will be inspected, inventoried and functionally checked each calendar quarter as well as after each use under the supervision of the Parish Radiological Defense Officer. Reserves to replace those items of equipment removed for calibration or repair will be supplied by GOHSEP.

## 2. Emergency Workers

- a. Emergency Workers (defined as those persons who are engaged in public service activities and as such voluntarily place themselves under different criteria for protection than the general public) will be equipped with pocket dosimeters and a permanent record dosimeter (such as a TLD) at the time of an accident. (See Tab A - Resource Requirements for Radiological Exposure Control.)
- b. Emergency workers, as volunteers, will be advised of risks and trained in the proper use of dosimeters, limitation of exposure (time, distance, shielding) and the use, administration, limitations and precautions of potassium iodide (KI).

- c. Emergency workers will record dosimeter readings twice, at a minimum, once upon entering and once when leaving an identified risk area. All emergency workers (including those not in identified risk areas) will record their dosimeter readings routinely throughout their period of participation.
- d. The Tensas Parish Police Jury President will be responsible for authorizing his emergency workers to incur exposures in excess of the EPA General Public Protective Action Guides. Authorization will be considered after consultation with LDEQ.
- e. Consideration for authorization of exposure greater than 5 R TEDE will be consistent with the following:

DOSE LIMITS* (TEDE)	ACTIVITY	CONDITIONS
> 5 R	Protecting Valuable Property	Lower dose not practicable
> 10 R	Life saving or Protection of Large Populations	Lower dose not practicable
> 25 R	Life saving or Protection of Large Populations	Only on a voluntary basis to persons fully aware of the risks involved

- f. Arrangements will be made for decontamination of emergency workers at reception centers outside of the Plume Exposure Pathway (10-mile) EPZ and at predetermined locations in non-affected Parishes. Provisions will be made at these centers to survey and decontaminate emergency workers and to transport them to medical facilities for further treatment of wounds or contamination if necessary. Contaminated supplies, instruments and equipment used by emergency workers will be stored at these sites until arrangements for their proper surveillance and decontamination or disposal can be made.
- g. Emergency workers will be responsible for filling out dosimeter report forms and giving them to the Parish Radiological Officer or other designated person at the conclusion of the emergency.

\* EPA 400-R-92-001 "Manual of Protective Action Guides and Protective Actions for Nuclear Incidents"  
Table 2-2

## **TAB A TO CHAPTER 5**

### **Resource Requirements for Radiological Exposure Control**

#### **Protective Equipment @ Tensas Parish EOC**

- (50) CD V-742 Dosimeter (Range: 0-200 R) or equivalent
  - (38) CD V-138 Dosimeter (Range: 0-200 mR) or equivalent
  - (50) Thermoluminescent Dosimeter (TLD) or Film Badge
  - (50) Booties
  - (200) Latex gloves
  - (50) Tyvek suits
  - (10) Emergency Worker Kit
- 
- (1) CD V-742 Dosimeter (Range: 0-200 R) or equivalent
  - (1) CD V-138 Dosimeter (Range: 0-200 mR) or equivalent
  - (1) Thermoluminescent Dosimeter (TLD) or Film Badge
  - (1) Individual Dosimeter Report Form
  - (1) Cumulative Exposure Form
  - (1) Potassium Iodide 14 x 130mg tablets w/instructions
  - (3) Latex gloves
  - (3) Booties
  - (1) Tyvek suit

#### **Radiological Monitoring Equipment @ Parish EOC**

- (17) Ludlum 3 (A) survey meters

#### **Communications Equipment @ Parish EOC**

- (28) 700 MHz handheld radios

#### **Emergency Supplies @ Parish EOC**

- (10) Plastic cones
- Yellow "Radioactive" Tape

#### **Emergency Supplies @ Parish Maintenance Unit**

- (10) Barricades
- (15) Plastic cones

## **CHAPTER 6**

### **Reentry, Recovery, and Return**

#### **A. Purpose**

To establish the methods used for the relaxation of any protective measures and the initiation of reentry into evacuation and/or exclusion areas. Also, to identify the means and methods necessary to support reentry and recovery activities.

#### **B. Concept of Operation**

##### 1. Relocation

- a. LDEQ will recommend the extension or further restriction of protective measures in affected areas in both the Plume Exposure Pathway (10-mile) and Ingestion Exposure Pathway (50-mile) EPZs to the Tensas Parish Police Jury President. These measures may include the temporary or permanent relocation of households. (Refer to Chapter 11 in the LPRRP, Reentry and Recovery.)
- b. The Tensas Parish responsibility for the relocation process will be handled by the same agencies and organizations that implemented protective actions.

##### 2. Reentry

- a. LDEQ will recommend the temporary entry into a restricted zone under controlled and monitored conditions to the Tensas Parish Police Jury President. (Refer to Chapter 11 in the LPRRP, Reentry and Recovery.)
- b. The Tensas Parish responsibility for the reentry process will be handled by the same agencies and organizations that implemented protective actions.

##### 3. Return

- a. LDEQ will recommend the relaxation of protective measures to allow the reoccupation of cleared areas for unrestricted residence or use to the Tensas Parish Police Jury President. (Refer to Chapter 11 in the LPRRP, 'Reentry and Recovery'.)
- b. The Tensas Parish responsibility for the return process will be

handled by the same agencies and organizations that implemented protective actions.

4. Recovery

- a. The recovery phase of emergency operations will commence when the emergency has been terminated and with the relaxation of any protective measures. Recovery will extend for a period of time determined by the severity of the accident.
- b. Recovery actions will be initiated by Tensas Parish on the recommendation of LDEQ.
- c. Services provided as part of the recovery phase will be coordinated among State, Parish and volunteer agencies to include social, health, economic and insurance-related assistance as required in accordance with the Louisiana Emergency Operations Plan.

# CHAPTER 7

## Exercises and Drills

### A. Purpose

To develop a program of exercises and drills to regularly evaluate the adequacy of the RBP plans and level of preparedness. It is the intent of these exercises and drills that areas not adequately addressed and/or needing improvement be identified.

### B. Concept of Operations

#### 1. Exercises

- a. A full participation exercise refers to an exercise in which sufficient numbers of State and local government personnel are engaged to verify the capability to respond to the actions required by the accident scenario; to test the integrated capability to adequately assess and respond to an accident at a commercial nuclear power plant and to test the implementation of observable portions of State and/or local plans.
- b. Tensas Parish will participate in a full scale exercise for GGNS at least once every two years. Participation will be such that all major elements of the plans and preparedness organizations are tested within a eight-year period.
- c. To the extent possible, every effort will be made to vary scenarios, including the weather conditions simulated and times (hourly, yearly)\* for each exercise.
- d. A remedial exercise is an exercise that tests deficiencies of previous joint exercises that are considered significant enough to impact on the public health and safety.

#### 2. Critique and Exercise Evaluation

- a. Arrangements will be made for observation and critique of each exercise by representatives of Parish, State and Federal government and the media as appropriate to the scale of the exercise.

---

\* to include provisions for off-hours and unannounced exercises once every six years.

- b. The critique, to be conducted as soon as practicable after the exercise, will result in a formal evaluation of the ability of each organization to respond as called for in the Louisiana Peacetime Radiological Response Plan.
- c. In addition, a critique of the chronological sequence of events will be conducted to identify time delays and their possible cause.
- d. Parish governments, in conjunction with LDEQ and GOHSEP, will review Parish level plans (Enclosures) and implementing procedures to resolve deficiencies based on exercise critiques and evaluations.

### 3. Drills

#### a. Communication Drills

- i. Communication drills will test both the adequacy of communications links and the response agency understanding of emergency classification and message content.
- ii. Communications between GGNS, Tensas Parish and the State will be tested weekly through the operational Hot Line (OHL).
- iii. Communications with Federal emergency response organizations and States (Louisiana and Mississippi) within the Ingestion Exposure Pathway (50-mile EPZ) will be tested quarterly.

#### b. Medical Emergency Drills

- i. A medical emergency drill will involve the transportation and treatment of a simulated contaminated injured by Parish or local support services.
- ii. Medical emergency drills involving the designated primary local hospital will be conducted annually, when practicable. The offsite portions of the medical drill may be performed as part of the required biennial exercise.

NOTE: In general, there is no requirement for Parish government involvement in medical drills, other than being

included in standard notification procedures. When relocation centers are exercised (as during full scale biennial exercises), the capability to direct "contaminated injured" members of the general public to the appropriate hospital will also be tested.

c. Radiological Monitoring Drills

- i. An annual radiological monitoring drill will involve the collection and simulated analyses of sample media such as water, soil, vegetation and air as well as provisions for communications and record keeping.
- ii. Tensas Parish will participate as requested with the State and EOI on the radiological monitoring drills held for GGNS.

d. Critique and Drill Evaluation

- i. Each drill will be supervised and evaluated by a qualified drill instructor(s).
- ii. The drill instructor(s) will be responsible for addressing any resulting drill deficiencies in a timely and appropriate manner.

4. Scenarios

a. Development and Design

- i. The State, in conjunction with Tensas Parish and GGNS, will develop exercise and drill scenarios based on NRC and FEMA guidance.
- ii. Exercises and drills will be designed to allow free-play for decision-making by the principal response organizations. Scenarios will include but not be limited to the following criteria:
  - 1) The basic objective(s) of each exercise or drill.
  - 2) The date(s), duration, location(s) and participating organizations and/or individuals.
  - 3) The events and/or items to be simulated.
  - 4) A time schedule of real and simulated initiating events.

- 5) A narrative summary describing the conduct of the exercise or drill to include such things as simulated casualties, offsite fire department assistance, rescue of personnel, use of protective clothing, deployment of Field Monitoring Teams, and public information activities (e.g. EAS message transmission).
- 6) Arrangements for providing plan and scenario information material, in advance, to official observers.

5. Critique and Scenario Evaluation

- a. Each scenario will be evaluated for its success in accomplishing its intended purpose and its contribution to the success or failure of the exercise or drill.
- b. The review of the scenario will consider such things as the effect of controllers versus the use of cue cards; whether to follow a sequence of events time, scenario time, or real time; time compression; simulation; etc. as it relates to the success and effectiveness of the scenario.

## **CHAPTER 8**

### **Radiological Emergency Response Training**

#### **A. Purpose**

To establish guidelines and requirements for a radiological emergency response training program for the personnel of Tensas Parish having a role in response to an accident at GGNS.

#### **B. Concept of Operations**

##### **1. Utility Directed Training - Offsite Support to GGNS**

- a. EOI will provide site-specific emergency response training for those offsite emergency organizations which may be called upon to provide assistance onsite, through pre-established agreement, should the need arise.
- b. Training will be provided for emergency response personnel, hospital employees, ambulance/rescue workers (paramedics), and sheriff and fire department personnel. It will include procedures for notification, basic radiation protection and the specific roles of each support organization. For the support personnel who will enter the site, training will also include access procedures and the onsite individual to whom they would report for coordination of their support activities onsite.
- c. For each primary and backup hospital designated to provide medical support for "contaminated injured" personnel, initial training and periodic retraining programs will be provided on evaluation and treatment of radiologically "contaminated injured patients. Transportation providers will receive basic training in "contamination control."

##### **2. State Directed Training - Response Plan Implementation**

- a. LDEQ, in conjunction with GOHSEP, will provide for the training of the Tensas Parish personnel who will implement the radiological emergency response plans.
- b. Personnel who will receive training on radiological emergency response include the following: Emergency Director, staff of the emergency response organizations (EOC staff), sheriffs and deputies, security personnel, medical support personnel

(offsite only), communications and transportation personnel, mutual aid organizations and any fire fighting, first aid and rescue personnel not trained by the 'Utility Directed' program.

- c. The initial training of response personnel will include an overview of radiological emergency response plans, including the facility (GGNS), State and Parish plans and procedures, basic information on radiation and radiation protection as well as more specific training on individual organization responsibilities and functions. For each primary and backup hospital designated to provide medical support for "Contaminated injured" personnel initial training and periodic retraining programs will be provided on evaluation and treatment of radiologically "contaminated injured" patients. Transportation providers will receive basic training in contamination control.
- d. Training for response personnel will be designed to enhance comprehension of the radiological emergency response plans and to orient personnel to their specific response function in relation to the overall protective response.
- e. In addition to plan orientation, those response personnel who will conduct activities within the Plume Exposure Pathway (10-mile EPZ) will receive training on radiological exposure control to include respiratory protection, protective clothing, dosimetry, management of total dose through exposure time limitations, reading and recording of personal dose data, decontamination procedures and the use of potassium iodide (KI), a radioprotective drug.
- f. After the initial training program, retraining of personnel will be accomplished on an annual basis. The scope of this training will be essentially the same as the initial program but will emphasize any new material and the reinforcement of original information.
- g. Mini-training sessions on detailed procedural aspects of the radiological emergency preparedness program will be conducted on an 'as needed' basis with the Tensas Parish OEP for individual members of their EOC staffs or the staffs collectively. These sessions will consist of individual procedure clarification or integrated 'table-top' exercises for the staff which will be general or designed to concentrate on areas of inadequacy.
- h. LDEQ, in conjunction with GOHSEP, will provide for initial and

follow-up training of the Tensas Parish elected officials who will evaluate protective response recommendations and coordinate the implementation of Parish protective response measures.

- i. LDEQ and GOHSEP will coordinate with and assist the utility with medical support personnel training identified in paragraph 8.b.1.c above, to the extent that qualified instructors are available.

3. Federal Training Programs

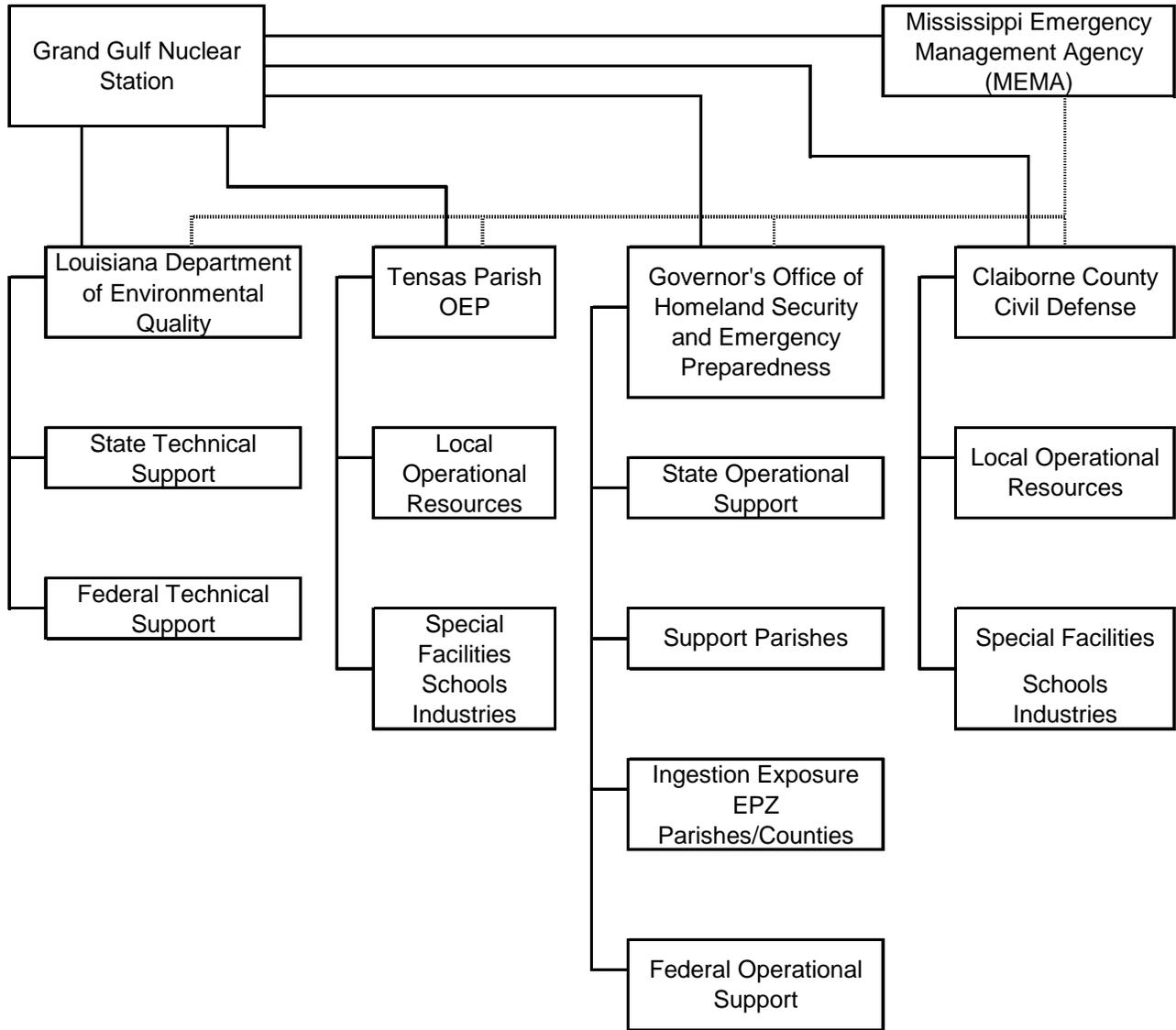
- a. FEMA and DOE offer several training courses for various aspects of radiological emergency planning, assessment and response. (Refer to Chapter 12 in the LPRRP, Training for more information pertaining to these courses.)
- b. Tensas Parish will designate appropriate Parish personnel to attend these courses, as available, to enhance overall plan development and strengthen specific aspects of emergency response through detailed technical training.

**APPENDIX A**

**Accident Notification and Coordination**

# TAB A TO APPENDIX A

## Accident Notification and Coordination



\_\_\_\_\_ Notification

..... Coordination

\* MEMA notifies the affected Counties in Mississippi

# TAB B TO APPENDIX A Sample Emergency Notification Form

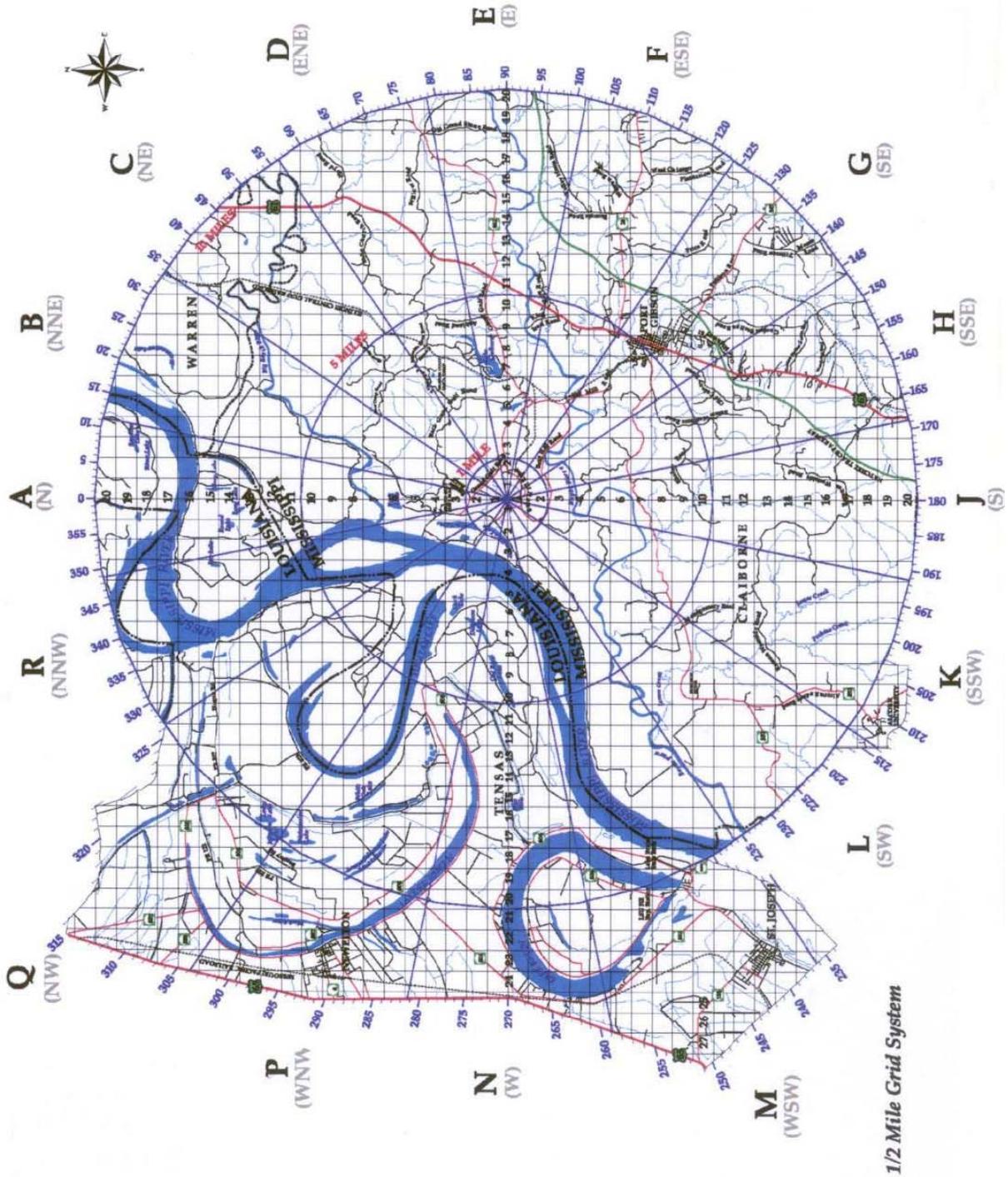
EMERGENCY NOTIFICATION FORM	
1. THIS IS GRAND GULF NUCLEAR STATION WITH MESSAGE NUMBER _____	
2. A. TIME _____ DATE _____ B. COMMUNICATOR: _____ C. TEL NO. 601-437- _____	
3. EMERGENCY CLASSIFICATION:	
A. <input type="checkbox"/> NOTIFICATION OF UNUSUAL EVENT    C. <input type="checkbox"/> SITE AREA EMERGENCY    E. <input type="checkbox"/> TERMINATED B. <input type="checkbox"/> ALERT    D. <input type="checkbox"/> GENERAL EMERGENCY	
4. CURRENT EMERGENCY CLASSIFICATION <input type="checkbox"/> DECLARATION    TIME: _____ DATE: _____ <input type="checkbox"/> TERMINATION    TIME: _____ DATE: _____	
5. RECOMMENDED PROTECTIVE ACTIONS:	
A. <input type="checkbox"/> No Protective Actions Recommended At This Time (Go to item 6).	
B. Consider prophylactic use of Potassium Iodide in accordance with State Plans.	
AND <input type="checkbox"/> EVACUATE ALL sectors to 2 miles. EVACUATE sectors _____ to 5 miles. SHELTER the remainder of the 10 mile EPZ with the exception of areas previously recommended for evacuation. OR <input type="checkbox"/> EVACUATE ALL sectors to 2 miles. EVACUATE sectors _____ to 10 miles. SHELTER the remainder of the 10 mile EPZ with the exception of areas previously recommended for evacuation. OR <input type="checkbox"/> Shelter _____	
6. INCIDENT DESCRIPTION/UPDATE/COMMENTS/EAL#: _____ _____ _____ _____	
7. REACTOR SHUTDOWN? <input type="checkbox"/> NO <input type="checkbox"/> YES    TIME: _____ DATE: _____	
8. METEOROLOGICAL DATA: <input type="checkbox"/> NOT AVAILABLE AT THIS TIME (Go to item 9)	
A. WIND DIRECTION FROM _____ Degrees at _____ MPH	
B. SECTORS AFFECTED (A-R) _____ C. STABILITY CLASS (A-G) _____	
D. PRECIPITATION: <input type="checkbox"/> None <input type="checkbox"/> Rain <input type="checkbox"/> Sleet <input type="checkbox"/> Snow <input type="checkbox"/> Hail <input type="checkbox"/> Other _____	
9. RELEASE INFORMATION:	
A. <input type="checkbox"/> NO RELEASE (Go to item 13)	
B. <input type="checkbox"/> A RELEASE is occurring BELOW federally approved operating limits. (Go to item 9E)	
C. <input type="checkbox"/> A RELEASE is occurring ABOVE federally approved operating limits. (Go to item 9E)	
D. <input type="checkbox"/> A RELEASE OCCURRED BUT STOPPED (Go to item 9E)	
E. Release started at _____ (time) Release stopped at _____ (time) Release Duration _____ hrs (Actual or Expected)	
10. TYPE OF RELEASE:	
A. <input type="checkbox"/> Radioactive Gases    B. <input type="checkbox"/> Radioactive Airborne Particulates    C. <input type="checkbox"/> Radioactive Liquids (Go to item 13)	
11. RELEASE RATE:    A. NOBLE GASES _____ Ci/s    B. IODINES _____ Ci/s	
12. ESTIMATE OF PROJECTED OFF-SITE DOSE:	
A. Projections for _____ hours based on: <input type="checkbox"/> Field Data <input type="checkbox"/> Plant Data	
B. <u>TEDE – WB DOSE COMMITMENT(mRem)</u> Site Boundary _____ 5 miles _____ 2 miles _____ 10 miles _____	C. <u>CDE – THYROID DOSE COMMITMENT (mRem)</u> Site Boundary _____ 5 miles _____ 2 miles _____ 10 miles _____
13. MESSAGE APPROVED BY: _____ TITLE: <input type="checkbox"/> EMERGENCY DIRECTOR	
EPP 06-01 REV. 20 (09/09)	

## **APPENDIX B**

### **Plume Exposure Pathway (10-mile) EPZ Maps**

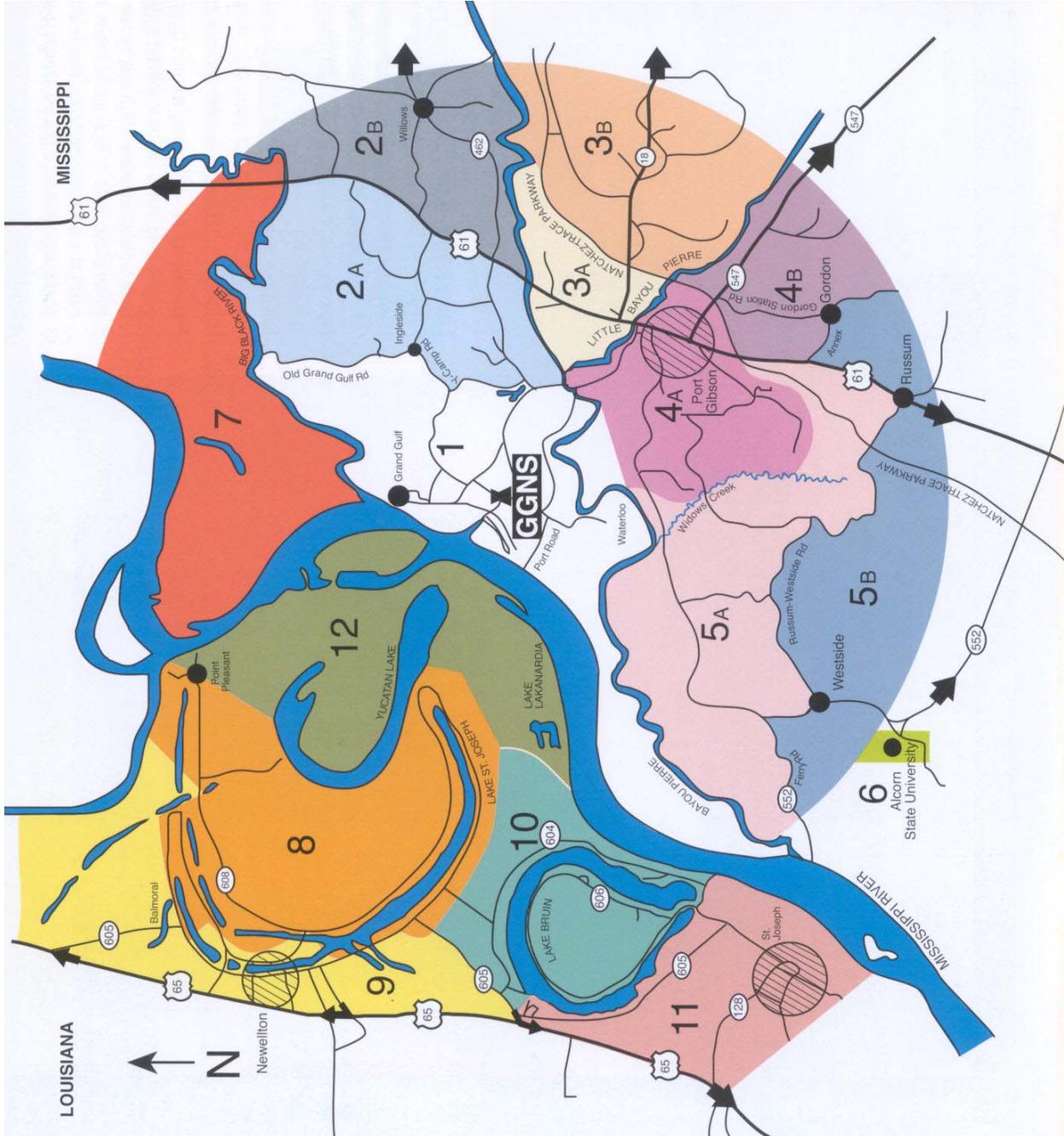
# TAB A TO APPENDIX B

## Grand Gulf Nuclear Station 10-mile EPZ



## TAB B TO APPENDIX B

### Protective Action Sections (PAS) within the Established Plume Exposure Pathway (10-mile) EPZ for Grand Gulf Nuclear Station

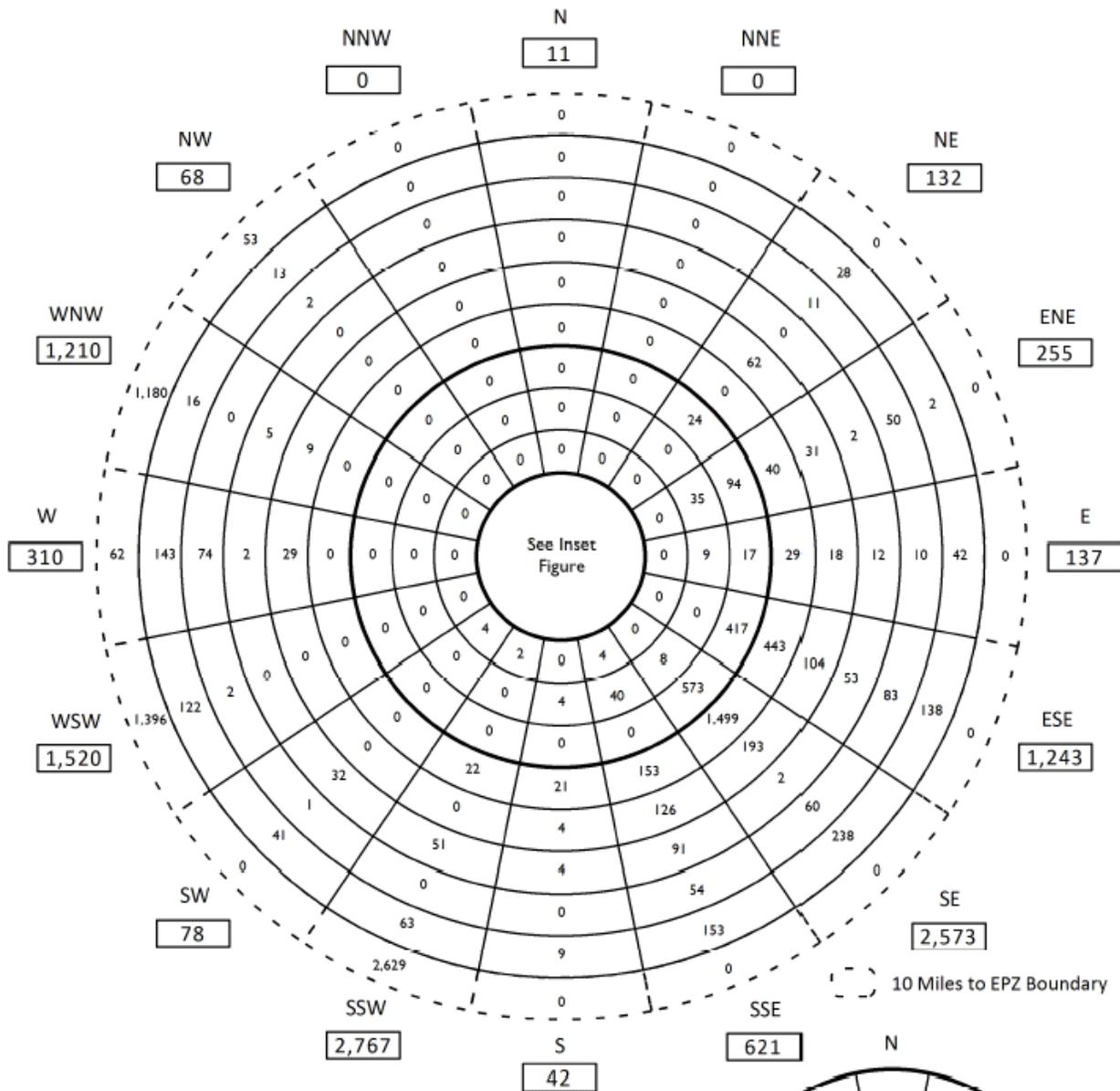


**TAB C TO APPENDIX B**

**2010\* Permanent Resident Populations by Sector**

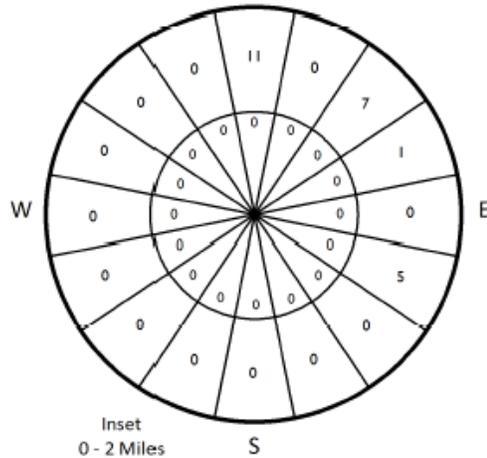
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\* Based on 2000 Census Data



**Resident Population**

Miles	Subtotal by Ring	Cumulative Total
0 - 1	0	0
1 - 2	24	24
2 - 3	10	34
3 - 4	96	130
4 - 5	1,125	1,255
5 - 6	2,207	3,462
6 - 7	576	4,038
7 - 8	254	4,292
8 - 9	347	4,639
9 - 10	1,008	5,647
10 - EPZ	5,320	10,967
<b>Total:</b>		<b>10,967</b>



\*Grand Gulf Nuclear Station Evacuation Time Estimate, KLD Engineering, Rev,1, 12

## TAB D TO APPENDIX B

### Permanent Resident Population and Vehicles by PAS/PAA

PAS / PAA	2010 Population	2010 Resident Vehicles
1	43	24
2A	305	166
2B	151	83
3A	961	519
3B	388	209
4A	2,407	1,298
4B	453	248
5A	138	75
5B	356	193
6	2,629	1,686
7	28	15
8	126	71
9	1,185	642
10	394	214
11	1,403	755
12	-	-
<b>TOTAL</b>	<b>10,967</b>	<b>6,198</b>

**TAB E TO APPENDIX B**

**Transient Resident Population and Vehicles by PAS/PAA**

PAS / PAA	Transients	Transient Vehicles
1	132	96
2A	90	63
2B	200	112
3A	-	-
3B	30	21
4A	50	35
4B	10	7
5A	70	49
5B	90	63
6	2,036	1,958
7	80	56
8	-	-
9	-	-
10	95	60
11	-	-
12	10	7
<b>TOTAL</b>	<b>2,893</b>	<b>2,527</b>

PAA / PAA 6 includes the commuter students from ASU

## **APPENDIX C**

### **Ingestion Exposure Pathway (50-mile) EPZ Map**



## TAB B TO APPENDIX C

### 1985<sup>\*</sup> Projected Louisiana Resident Population within the established Ingestion Exposure Pathway (50-mile) EPZ for Grand Gulf Nuclear Station

Sector	10-Mile							50-Mile				
	0-1	1-2	2-3	3-4	4-5	5-10	Total	10-20	20-30	30-40	40-50	Total
L	0	0	0	0	0	87	87	824	2,482	15,869	4,177	23,439
M	5	0	0	0	0	52	57	1,838	888	2,334	2,691	7,808
N	0	0	0	0	0	228	228	436	568	5,939	3,824	10,995
P	0	0	0	0	0	52	52	2,100	645	6,971	8,242	18,010
Q	0	0	0	0	5	25	30	423	206	2,681	7,413	10,753
R	0	6	0	0	0	6	12	145	10,660	993	3,670	15,480

<sup>\*</sup> Projected from 1980 census data for 10-50-mile area; from 0-10 miles, demographic data was collected in 1992.

# **APPENDIX D**

## **Evacuation Time Estimate**

## TAB A TO APPENDIX D

### Evacuation Scenario Definitions

Scenario	Season <sup>2</sup>	Day of Week	Time of Day	Weather	Special
1	Summer	Midweek	Midday	Good	None
2	Summer	Midweek	Midday	Rain	None
3	Summer	Weekend	Midday	Good	None
4	Summer	Weekend	Midday	Rain	None
5	Summer	Midweek, Weekend	Evening	Good	None
6	Winter	Midweek	Midday	Good	None
7	Winter	Midweek	Midday	Rain	None
8	Winter	Weekend	Midday	Good	None
9	Winter	Weekend	Midday	Rain	None
10	Winter	Midweek, Weekend	Evening	Good	None
11	Winter	Weekend	Evening	Good	ASU Football Game
12	Summer	Midweek	Midday	Good	Roadway Impact – Lane Closure on US 61 NB





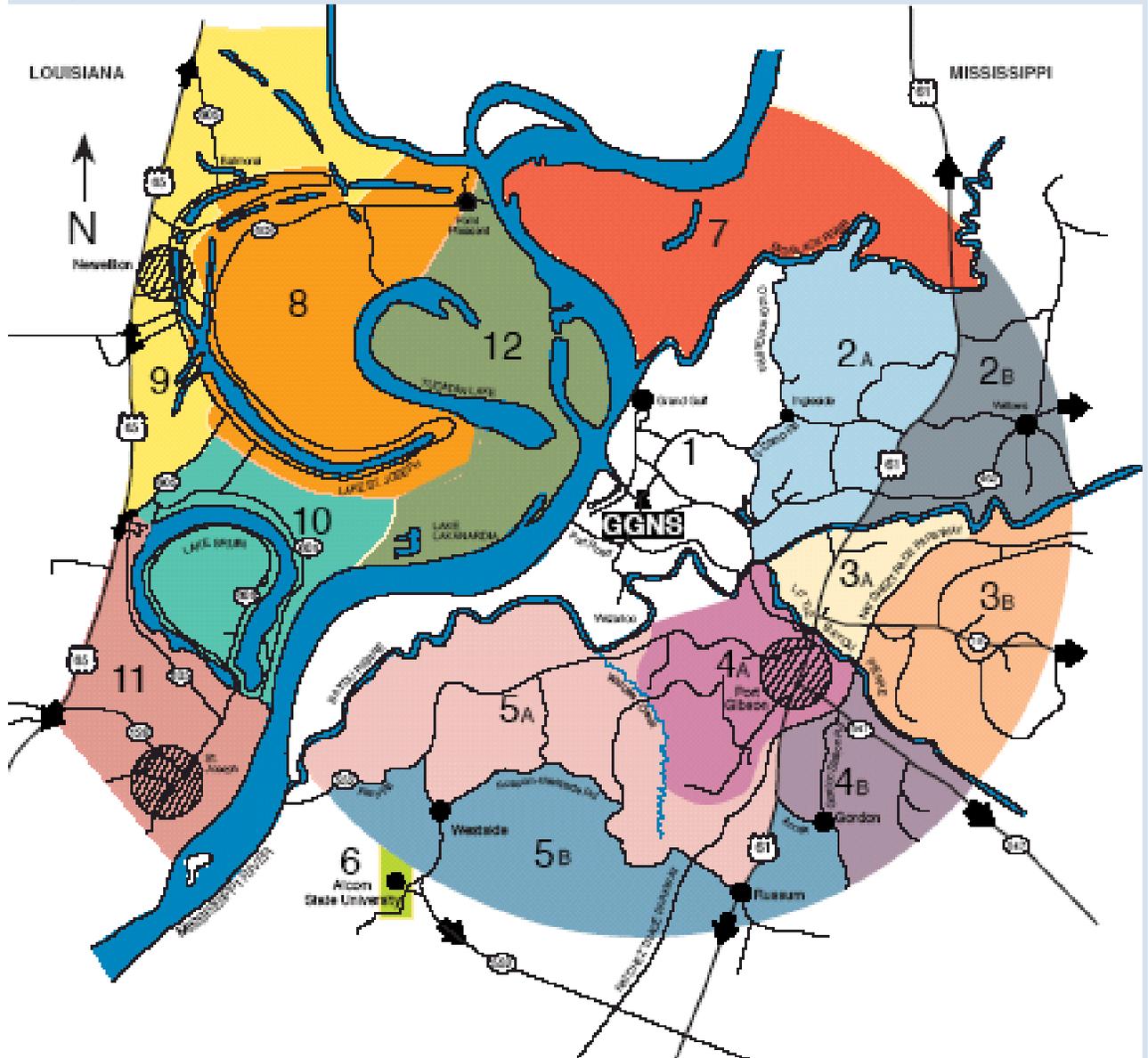
Scenario:	Summer			Summer			Summer			Winter			Winter			Winter			Summer									
	Midweek			Weekend			Midweek			Weekend			Midweek			Weekend			Midweek			Weekend						
	(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)	(12)	(1)	(2)	(3)	(4)	(5)	(6)	(1)	(2)	(3)	(4)	(5)	(6)				
Region	Good Weather	Rain	Good Weather	Good Weather	Evening	Good Weather	Evening	Good Weather	Evening	Special Event	Midday	Roadway Impact	Region															
5-Mile Region and Keyhole to EPZ Boundary																												
R23	2:10	2:15	2:05	2:10	2:10	2:10	2:10	2:15	2:05	2:05	2:05	2:05	2:10	2:15	2:05	2:05	2:05	2:05	2:05	2:00	2:00	2:05	2:00	2:00	2:00	2:00	2:10	R23
R24	2:10	2:15	2:05	2:10	2:10	2:10	2:10	2:15	2:05	2:05	2:05	2:05	2:10	2:15	2:05	2:05	2:05	2:05	2:05	2:00	2:00	2:05	2:00	2:00	2:00	2:10	2:10	R24
R25	2:10	2:15	2:05	2:10	2:10	2:10	2:10	2:15	2:05	2:05	2:05	2:05	2:10	2:15	2:05	2:05	2:05	2:05	2:05	2:00	2:00	2:05	2:00	2:00	2:00	2:10	2:10	R25
R26	2:15	2:15	2:05	2:10	2:10	2:10	2:10	2:15	2:05	2:05	2:05	2:05	2:10	2:15	2:05	2:05	2:05	2:05	2:05	2:00	2:00	2:05	2:00	2:00	2:00	2:15	2:15	R26
R27	2:15	2:15	2:05	2:10	2:10	2:10	2:10	2:15	2:05	2:05	2:05	2:05	2:10	2:15	2:05	2:05	2:05	2:05	2:05	2:00	2:00	2:05	2:00	2:00	1:55	2:15	2:15	R27
R28	2:15	2:15	2:05	2:10	2:10	2:10	2:10	2:15	2:05	2:05	2:05	2:05	2:10	2:15	2:05	2:05	2:05	2:05	2:05	2:00	2:00	2:05	2:00	2:00	1:55	2:15	2:15	R28
R29	2:15	2:15	2:05	2:10	2:10	2:10	2:10	2:15	2:05	2:05	2:05	2:05	2:10	2:15	2:05	2:05	2:05	2:05	2:05	2:00	2:00	2:05	2:00	2:00	2:30	2:15	2:15	R29
R30	2:15	2:15	2:05	2:10	2:10	2:10	2:10	2:15	2:05	2:05	2:05	2:05	2:10	2:15	2:05	2:05	2:05	2:05	2:05	2:00	2:00	2:05	2:00	2:00	2:30	2:15	2:15	R30
R31	2:15	2:15	2:00	2:05	2:05	2:05	2:10	2:10	2:00	2:00	2:00	2:00	2:10	2:10	2:00	2:00	2:05	2:05	2:05	2:00	2:00	2:00	2:00	2:00	2:30	2:15	2:15	R31
R32	2:15	2:15	2:05	2:05	2:05	2:05	2:10	2:15	2:05	2:05	2:05	2:05	2:15	2:15	2:05	2:05	2:05	2:05	2:05	2:00	2:00	2:00	2:00	2:00	2:00	2:15	2:15	R32
R33	2:15	2:15	2:05	2:05	2:05	2:05	2:10	2:15	2:05	2:05	2:05	2:05	2:15	2:15	2:05	2:05	2:05	2:05	2:05	2:00	2:00	2:00	2:00	2:00	2:00	2:15	2:15	R33
R34	2:10	2:15	2:05	2:00	2:00	2:00	2:10	2:15	2:05	2:05	2:05	2:05	2:10	2:15	2:05	2:05	2:05	2:05	2:05	2:00	2:00	2:00	2:00	2:00	2:00	2:10	2:10	R34
Staged Evacuation - 5-Mile Region, 2-Mile Region and Keyhole to 5 Miles																												
R35	2:10	2:15	2:05	2:05	2:05	2:05	2:10	2:10	2:05	2:05	2:05	2:05	2:10	2:10	2:05	2:05	2:05	2:05	2:05	2:00	2:00	2:05	2:00	2:00	2:00	2:10	2:10	R35
R36	1:35	1:35	1:45	1:45	1:45	1:45	1:35	1:35	1:40	1:40	1:40	1:40	1:35	1:35	1:40	1:40	1:40	1:40	1:45	1:45	1:45	1:45	1:45	1:45	1:45	1:35	1:35	R36
R37	2:05	2:05	2:05	2:05	2:05	2:05	2:05	2:05	2:05	2:05	2:05	2:05	2:05	2:05	2:05	2:05	2:05	2:05	2:05	2:00	2:00	2:05	2:00	2:00	2:00	2:05	2:05	R37
R38	2:05	2:10	2:05	2:05	2:05	2:05	2:05	2:10	2:05	2:05	2:05	2:05	2:10	2:10	2:05	2:05	2:05	2:05	2:05	2:00	2:00	2:05	2:00	2:00	2:00	2:05	2:05	R38
R39	2:10	2:10	2:05	2:05	2:05	2:05	2:10	2:10	2:05	2:05	2:05	2:05	2:10	2:10	2:00	2:00	2:05	2:05	2:05	2:00	2:00	2:00	2:00	2:00	2:00	2:10	2:10	R39
R40	2:05	2:10	2:00	2:00	2:00	2:00	2:05	2:10	2:00	2:00	2:00	2:00	2:05	2:10	2:00	2:00	2:05	2:05	2:00	2:00	2:00	2:00	2:00	2:00	1:55	2:05	2:05	R40
R41	2:00	2:05	2:00	2:00	2:00	2:00	2:00	2:05	2:00	2:00	2:00	2:00	2:05	2:10	2:00	2:00	2:05	2:05	2:00	1:55	1:55	1:55	1:55	1:55	1:55	2:00	2:00	R41





**TAB D TO APPENDIX D**

**Evacuation Routes for the established Plume Exposure Pathway (10-mile) EPZ for Grand Gulf Nuclear Station**



## **APPENDIX E**

### **Radiological Sampling and Monitoring Locations**

## **APPENDIX E**

### **Radiological Sampling and Monitoring Locations**

The State of Louisiana does not use pre-designated radiological sampling or monitoring locations.

**APPENDIX F**  
**Glossary of Terms**

## APPENDIX F

### Glossary of Terms

1. **Access Control Point** - A pre-designated location manned by Parish Sheriff's Deputies, the State Police or by the National Guard in order to prevent entry into the risk area during an accident. These points will be located on or immediately beyond the perimeter of the risk area.
2. **Activated** – An Emergency Operation Center is considered activated as soon as notification of an incident is received and the Director makes the determination to activate the facility. The facility is not considered operational until it is ready to carry out full emergency operations with key decision makers in place.
3. **Central Resource Receiving Point** - A predetermined location outside the plume exposure pathway EPZ suitable for the reception and distribution of supplies and equipment.
4. **Committed Dose Equivalent (CDE)** – The total dose equivalent (averaged over a particular tissue) deposited over a time period following the intake of a radionuclide.
5. **Committed Effective Dose Equivalent (CEDE)** - The effective dose equivalent resulting from radionuclides in the body over a time period (approximately 50 to 70 years).
6. **Contaminated Injured** - A person who is contaminated and otherwise physically injured, or contaminated and exposed to dangerous levels of radiation, or a person who is exposed to dangerous levels of radiation.
7. **Decontamination** - Procedures taken to remove and contain radiological contamination on persons or contamination present on supplies, instruments, equipment or vehicles. These procedures will usually involve showering by persons and washing or disposing of clothing and other contaminated items.
8. **Decontamination Survey** - The process by which persons and vehicles are monitored to determine the presence and/or level of contamination. Such surveys will be performed with the use of a Geiger-Mueller survey meter (Geiger Counter), or similar device.
9. **Derived Intervention Levels** (ingestion phase) - The concentration derived from the intervention level of dose at which introduction of protective measures should be considered.
10. **Dose Equivalent** - The product of the absorbed dose in Rad, a quality factor related to the biological effectiveness of the radiation involved and any other modifying factor.

11. **Dose Rate** - The amount of radiation which an individual can potentially receive per unit of time.
12. **Dosimeter** - An instrument worn by an individual to measure the total dose of radiation received over a specified period of time.
13. **Effective Dose Equivalent (EDE)** - The sum of the products of the dose equivalent to an organ or tissue, and the weighing factor applicable to each of the body organs or tissues that are irradiated.
14. **Emergency** - Any condition existing outside the bounds of nuclear operating sites owned or licensed by a Federal agency, and further, any condition existing within or outside of the jurisdictional confines of a facility licensed or registered by the Louisiana Department of Environmental Quality (LDEQ) and arising from the presence of byproduct material, source material, special nuclear material, or any other radioactive material or source of radiation which is endangering or could reasonably be expected to endanger the health and safety of the public or to contaminate the environment.
15. **Emergency Medical Assistance Program (EMAP)** - A program developed by the individual fixed nuclear facilities, in coordination with State and risk Parish government and supporting hospitals, which provides the basis for handling on-site medical emergencies, whether or not the injured/ill persons are radioactively contaminated or irradiated.
16. **Emergency Operations Center (EOC)** - A facility used by State or local government to direct operations in the event of an emergency.
17. **Emergency Operations Facility (EOF)** - A licensee facility near the plant for the management of overall emergency response, the coordination of radiological assessment and for the management of recovery operations. The EOF is designed to provide assistance in the decision making process for the protection of public health and safety and to control radiological monitoring teams and facilities on-site and off-site.
18. **Emergency Planning Zone (EPZ)** - A generic area defined about a nuclear facility to facilitate off-site emergency planning and develop a significant response base. It is defined for the plume and ingestion exposure pathways.
19. **Emergency Workers** - Persons acting in an official capacity to carry out functions and responsibilities inside the plume exposure pathway EPZ during an accident. As such, these individuals are under different criteria for protection than the general public.
20. **Field Monitoring Team (FMT)** - A team of personnel dispatched to the plume or ingestion exposure pathway EPZ at the time of an accident to perform radiological environmental sampling and surveys.
21. **Fixed Nuclear Facility Accident** (hereinafter called an "accident") - An accident

at a fixed nuclear facility that can be categorized in one of the following four emergency classes:

- a. **Notification of Unusual Event** - Unusual events are in process or have occurred which indicate a potential degradation of the level of safety of the plant or indicate a security threat to facility protection. No releases of radioactive material requiring off-site response or monitoring are expected unless further degradation of safety systems occurs
  - b. **Alert** - Events are in process or have occurred which involve an actual or potential substantial degradation, of the level of safety of the plant or a security event that involves probable life threatening risk to site personnel or damage to site equipment because of intentional malicious dedicated efforts of a hostile act. Any releases are expected to be limited to small fractions of the EPA Protective Action Guideline exposure levels.
  - c. **Site Area Emergency** - Events are in process or have occurred which involve an actual or likely major failures of plant functions needed for protection of the public or security events that result in intentional damage or malicious acts; (1) toward site personnel or equipment that could lead to the likely failure of or; (2) prevents effective access to equipment needed for the protection of the public. Any releases are not expected to result in exposure levels which exceed EPA Protective Action Guideline exposure levels beyond the site boundary.
  - d. **General Emergency** - Events are in process or have occurred which involve actual or imminent substantial core degradation or melting with potential for loss of containment integrity or security events that result in an actual loss of physical control of the facility. Releases can be reasonably expected to exceed EPA Protective Action Guideline exposure levels off-site for more than the immediate site area.
- 22. Hostile Action** - An act toward a nuclear power plant or its personnel that includes the use of violent force to destroy equipment, take hostages, and/or intimidate the licensee to achieve an end. This includes attack by air, land, or water using guns, explosives, projectiles, vehicles, or other devices used to deliver destructive force.
- 23. Ingestion Exposure Pathway** - The process by which people are indirectly exposed to radiological contamination. The principal exposure from this pathway would be from ingestion of contaminated water or foods such as milk or fresh vegetables. The duration of principal exposures could range in length from hours to months. The EPZ for this pathway consists of an area of about 50 miles in radius around a **fixed nuclear facility**.
- 24. Ionizing Radiation** – Short wavelength high frequency radiation that has the ability to energize and strip electrons from atoms or molecules creating an ion. Examples are alpha particles, beta particles, neutrons, and high frequency

ultraviolet light, x-rays, and gamma rays.

25. **Licensee** - Holder of or applicant for a license to operate a fixed nuclear power facility.
26. **Local Government** - The legal governing body of any Parish, municipality or subdivision of the State. For the purposes of this Plan, the term "local" will refer to offices or agencies of Parish government and any organization functioning within the Parish and having an emergency response role.
27. **Main Evacuation Routes** - Those roadways identified in advance in State and risk Parish plans as the principal routes leading from the plume exposure pathway EPZ for use by vehicles in the event of an accident requiring evacuation.
28. **Mode of Discharge** - Any of several types of radioactive releases which principally consists of a discharge of radioactivity to the ground surface, surface water, the atmosphere or any combination thereof.
29. **National Response Framework (NRF)** - The *National Response Framework* is a guide to how the Nation conducts all-hazards response – from the smallest incident to the largest catastrophe. This key document establishes a comprehensive, national, all-hazards approach to domestic incident response. The *Framework* identifies the key response principles, roles and structures that organize national response. It describes how communities, States, the Federal Government and private-sector and nongovernmental partners apply these principles for a coordinated, effective national response. And, it describes special circumstances where the Federal Government exercises a larger role, including incidents where Federal interests are involved and catastrophic incidents where a State would require significant support. It allows first responders, decision-makers and supporting entities to provide a unified national response
30. **Operational** – An emergency facility (e.g., Joint Information Center, EOC, Laboratory) is considered operational when all key decision makers are at their duty stations and capable of performing all emergency function assigned to that facility.
31. **Pick-up Point(s)** – Pre-designated location(s) at which members of the general public without automobiles or other means of transportation will be provided (where applicable) with transportation out of the plume exposure pathway EPZ.
32. **Plume Exposure Pathway** - The process by which people are directly exposed to radiation. The principal exposures from this pathway would be whole body external exposure to gamma radiation from the plume and deposited materials, and inhalation exposure from the passing plume. The duration of principal exposures could range in length from hours to days. The EPZ for this pathway consists of an area of about 10 miles in radius around a fixed nuclear facility.
33. **Potassium Iodide (KI)** - A radioprotective drug which if administered properly, can

saturate the thyroid with stable iodine and therefore reduce further uptake of radioactive iodine if radioiodines are inhaled. The usefulness of this drug is limited to protecting the thyroid and affords no protection against external gamma whole body exposure.

34. **Precautionary Action** (ingestion phase) - The action taken, prior to confirmation of contamination, to avoid or reduce the potential for contamination of food and animal feed.
35. **Projected Dose** - The calculated or estimated dose to an individual or populace from exposure to the plume and/or deposited materials, over a period of time, in the absence of protective action.
36. **Protective Action** (plume phase) - A specific action which may be taken to minimize or eliminate a hazard to the health and safety of people within a risk area. Protective actions identified in this plan are access control, sheltering, evacuation and respiratory protection, thyroid protection, which may be implemented individually or in combination.
37. **Protective Action** (ingestion phase) - The action taken to limit the radiation dose from ingestion by avoiding or reducing the contamination in or on human food and animal feeds.
38. **Protective Action Areas (PAA)** – Terminology used by the State of Mississippi in lieu of “Protective Action Section.” See “Protective Action Section (PAS).”
39. **Protective Action Decision (PAD)** – A chosen directive and implementation of that directive based upon Protective Action Recommendations to avoid or reduce exposure from radiation.
40. **Protective Action Guide (PAG)** - Projected radiological dose or dose commitment values to individuals in the general population which warrant taking protective action.
41. **Protective Action Recommendation (PAR)** – Advice given to the implementing agencies (e.g., local government) on emergency measures it should consider when determining action for the public to take to avoid or reduce exposure from radiation.
42. **Protective Action Section (PAS)** - An area within the plume exposure pathway EPZ where the implementation of protective action or actions may be deemed necessary at the time of an accident. See also “Protective Action Section (PAS).”
43. **Protective Response** - The implementation of a protective action or combination of protective actions by governmental agencies at the time of an accident to eliminate or reduce radiation exposure to the public.
44. **Radiation** - Any form of energy propagated as rays, waves, or streams of energetic particles that travel through space or a material medium. Ionizing

radiation is of particular concern as it has the ability to damage human cells.

45. **Radiation Dose** - The quantity of radiation energy imparted to the body or any portion of the body without regard for the type of radiation.
46. **Radiological Monitoring Point** - A pre-designated location at which radiological data is gathered through automatic or manual environmental sampling.
47. **Radioprotective Drugs** - Compounds containing stable iodine in sufficient quantities to saturate the thyroid, thereby blocking partially or wholly the absorption, and increasing the elimination, of radioiodines by the human body.
48. **Reception Center** - A pre-designated site outside the plume exposure pathway EPZ at which evacuees will be registered, monitored for contamination, decontaminated if necessary, and directed to shelters or appropriate medical facilities as appropriate.
49. **Recovery** – The process of reducing radiation exposure rates and concentrations of radioactive material in the environment to acceptable levels for return by the general public for unconditional occupancy or use after the emergency phase of a radiation emergency.
50. **Reentry** – The temporary return of emergency workers or essential individuals into a restricted zone under controlled conditions.
51. **Relocation** – The removal or continued exclusion of people from contaminated areas to avoid chronic radiation exposure. Relocation may take place both inside and outside the 10-mile EPZ.
52. **Respiratory Protection** - Those actions taken at the time of an accident intended to minimize the inhalation of airborne contamination.
53. **Restricted Area** – An area in which evacuation has been completed and entry into this area is prohibited until the area is determined to be safe to return.
54. **Return** – The reoccupation of areas cleared for unrestricted residence or use.
55. **Risk Parish** - A Parish located partially or wholly within the plume exposure pathway EPZ of a fixed nuclear facility.
56. **Shelter** - A facility established outside the plume exposure pathway EPZ at the time of an accident for the purpose of providing food, shelter and medical care on a short or long-term basis for persons evacuating the risk area.
57. **Sheltering** - Action taken by the public to protect against radiological exposure which includes remaining indoors, closing doors and windows and decreasing building ventilation during and following the passage of a radioactive plume.
58. **Support Parish** - Generally, a parish outside the plume exposure pathway EPZ of a fixed nuclear facility that, through prior agreement, will provide resource support to a risk Parish in the event of an accident. East Baton Rouge Parish serves

primarily as a support parish even though partially included within the River Bend Station plume exposure pathway EPZ.

59. **Total Effective Dose Equivalent (TEDE)** - The sum of the effective dose equivalent from external radiation while immersed in the plume and the Effective Dose Equivalent from four days exposure to deposition, and the Committed Effective Dose Equivalent from inhalation of the material in the plume.
60. **Traffic Control Point** – Pre-designated locations established on a main evacuation route to be manned by emergency workers. These locations will be manned for the purpose of controlling traffic flow during an accident requiring evacuation of all or a portion of the plume exposure pathway EPZ.

**APPENDIX G**  
**Reference Documents**

## **APPENDIX G**

### **Reference Documents**

1. Criteria for Preparation and Evaluation of Radiological Emergency Response Plans and Preparedness in Support of Nuclear Power Plants (NUREG 0654 FEMA-REP-1, Rev. 1)
2. Code of Federal Regulations, Title 10, Parts 50 and 70; Title 44, Parts 350 and 351
3. Emergency Operations Plan for Tensas Parish
4. Grand Gulf Nuclear Station Evacuation Time Estimate KLD Engineering, P.C. Rev. 1, 2012
5. Final Safety Analysis Report for Grand Gulf Nuclear Station
6. Louisiana Emergency Operations Plan  
Louisiana Peacetime Radiological Response Plan
7. Manual of Protective Action Guides and Protective Actions for Nuclear Incidents (EPA-520/1-75-001, revised June 1980)
8. Preparedness and Response in Radiation Accidents (FDA)

**ENCLOSURE I  
TO ATTACHMENT 2**

**TENSAS PARISH  
RADIOLOGICAL EMERGENCY RESPONSE PLAN**

# ENCLOSURE I TENSAS PARISH

## TABLE OF CONTENTS

	<u>Page</u>
A. Introduction	73
B. Authority	73
C. Direction and Control	73
D. Organization and Responsibilities	74
E. Notification and Activation	88
F. Emergency Communications	91
G. Protective Response for the Plume Exposure Pathway	95
H. Public Health Support	101
I. Appendices	
I-1 List of Letters of Agreement	102
I-2 List of Implementing Procedures	103

### FIGURES

D-1 Tensas Parish Organizational Chart	86
D-2 Tensas Parish Emergency Function and Responsibility Matrix	87
F-1 Tensas Parish Communications System	93
G-1 Tensas Parish Reception Center and Shelter Locations	99
G-1a Tensas Parish Reception Center Listing	100

## **A. Introduction**

This Enclosure together with the General Plan of Attachment 2, Louisiana Peacetime Radiological Response Plan, constitutes the entire planning document to guide the direction and control of local government responses to an emergency situation at Grand Gulf Nuclear Station. This Enclosure addresses preparedness criteria and planning elements specific for Tensas Parish. It outlines the direction and control, the responsibilities for the performance of Parish emergency operations and support activities, the means for timely warning and protective actions as needed for citizens threatened by a release of radioactive material, and the means of integrating the actions of local government with those of the State of Louisiana, and Mississippi Entergy Operations, Inc.

Although the construction of nuclear power facilities provides substantial safeguards against the occurrence of radiological emergencies, this Enclosure provides an additional level of safety to ensure protection of the public through a coordinated emergency response by local government.

## **B. Authority**

Authority for the development and implementation of this Enclosure is consistent with and pursuant to the provisions of the Tensas Parish Police Jury Ordinances for Emergency Preparedness.

## **C. Direction and Control**

Tensas Parish, when affected by an emergency at Grand Gulf Nuclear Station, is responsible for initial radiological emergency response operations within its jurisdiction. The Parish will coordinate such actions through its Office of Emergency Preparedness (OEP) and through the Parish emergency response organization. The Police Jury President of Tensas Parish through the Homeland Security and Emergency Preparedness Coordinator will provide the necessary direction and control to initiate actions and conduct emergency operations required to protect the population of Tensas Parish from an emergency at Grand Gulf Nuclear Station. In his absence, responsibility will be delegated according to Parish procedures for continuity of Parish government. The Emergency Operations Center (EOC) for Tensas Parish is located at the Courthouse Complex, Hancock Street, St. Joseph, Louisiana. The EOC contains an emergency communications center and provides adequate space for staff and equipment such as tables, telephones, and status boards. Generally, staff assignments to the EOC may include representatives of the following:

- Police Jury President, Tensas Parish
- Mayor of St. Joseph

- Mayor of Newellton
- Homeland Security and Emergency Preparedness Coordinator
- Sheriff's Office
- Public Information Officer
- Radiological Officer
- Communicator
- Highway Department
- Health Unit
- American Red Cross
- St. Joseph Police Department
- Newellton Police Department
- Tensas Parish Superintendent of Education
- State Police
- Ambulance Service
- Fire Departments

State agency support and technical analysis will be provided through the Louisiana Department of Environmental Quality (LDEQ) and the Governors Office of Homeland Security & Emergency Preparedness (GOHSEP). The LDEQ will be responsible for offsite radiological monitoring and analysis and protective action recommendations. GOHSEP will coordinate all state resources through the appropriate state agencies. In the event the emergency situation is beyond local control and response capabilities, the Governor may issue a "Declaration of Emergency," whereby any or all emergency operations would then be under the direction of the Governor.

## D. Organization and Responsibilities

Local organizations with emergency responsibilities are identified in the following sections. Each organization is responsible for assuring continuity of resources to support emergency operations for a protracted period. Each organization or sub-organization having an operations role is responsible for maintaining its own Emergency Implementing Procedures (EIPs) which describe detailed emergency actions to be performed.

The relationships between the local organizations are graphically depicted in Figure D-1. As shown, local organizations are coordinated by the Parish Emergency Preparedness Coordinator with the exception of the Parish Health Unit is coordinated by the State Department of Health and Hospitals; however, the Emergency Preparedness Coordinator may provide limited coordination, if required by the circumstances at the time of the emergency, with the approval of the State Department of Health and Hospitals. The primary and support responsibilities of the organizations for key emergency functions are specified in the Emergency Function and Responsibility Matrix shown in Figure D-2.

### 1. Local Government

#### a. Tensas Parish Police Jury

The Tensas Parish Police Jury, under the direction of the Police Jury President, is responsible for:

- The safety and well being of persons in the Parish.
- Maintenance and implementation of the Tensas Parish Radiological Emergency Response Plan through the Parish Emergency Preparedness Office for response to an accident at Grand Gulf Nuclear Station.
- Initiating actions and providing direction and control at the local level.
- Conducting emergency operations through the Emergency Preparedness Coordinator.
- Through the advice of LDEQ, authorizing emergency workers to incur exposure in excess of general public PAGs.
- In coordination with the Emergency Preparedness Director, consider Protective Action Recommendations, based on accident conditions, from LDEQ or from GGNS to determine

#### Protective Action Decisions.

- Ensure Protective Action Decisions are implemented and coordinate operational elements for implementation of the protective response recommendations with GOHSEP.
- Management of resources and facilities within the parish.
- Liaison to municipal and state heads of government, military and industry.
- Designating chief spokesperson and approving official news releases for the Parish.

The Parish Attorney is responsible for:

- Providing legal advice and counsel to the Emergency Preparedness Coordinator in the interpretation of Parish, State, and Federal law relating to disaster preparedness under a given circumstance.
- Ensuring legality of any and all emergency laws and ordinances passed by the Police Jury.
- Providing an emergency representative to the Parish EOC, as requested, during an emergency.

#### b. Municipal Governments

Municipal governments (St. Joseph, Newellton), under the direction of the respective Mayor, are responsible for supporting radiological emergency planning within the municipality. It is each Mayor's responsibility for:

- Coordinating with Police Jury President and the Homeland Security and Emergency Preparedness Coordinator relative to emergency response actions and implementation of protective actions.
- Directing municipal resources in support of emergency response efforts.
- Reporting to the Parish EOC, as needed.

#### c. Tensas Parish Office of Homeland Security and Emergency Preparedness

The Homeland Security and Emergency Preparedness Office, under the direction of the Homeland Security and Emergency Preparedness Coordinator, is responsible for the development and maintenance of procedures to implement this plan. The Homeland Security and Emergency Preparedness Coordinator is responsible for:

- Acting as the Chief of Staff for the Police Jury President and directing and coordinating Parish emergency response to an accident at Grand Gulf Nuclear Station.
- Serving as the liaison between the Parish Policy Jury and emergency response forces.
- Supervising the development and maintenance of plans and procedures for Parish response to an accident at Grand Gulf Nuclear Station, including:
  - a quarterly verification and update of emergency implementing procedures telephone numbers,
  - an annual review and update of emergency implementing procedures,
  - an annual review of the plan and certified to be current and,
  - an update of plans and agreements, as needed, taking into account issues identified in drills and exercises. LDEQ may assist the Coordinator in determining the issues which require a plan update and the options to correct those issues.
- Supervising the development and implementation of training and public information and education programs within the Parish.
- Maintaining an adequate supply of radiation monitoring equipment through a program of equipment inspection, inventory, and operational checks.
- Maintaining an adequate supply of KI and ensuring the KI is stored at room temperature.
- Developing and maintaining contracts and agreements necessary to implement the Parish radiological emergency response plan.

- Ensuring the coordination of special facility (e.g., industry and school) emergency procedures and protective actions with Parish plans in response to an accident at Grand Gulf Nuclear Station.
- Ensuring notification and coordination of all local agencies supporting emergency operations, as required, including the activation and use of reception centers and shelters should an evacuation be necessary.
- Coordinating with GOHSEP and LDEQ in supporting emergency operations at the local level.
- Provide guidance to the Police Jury President regarding Protective Action Recommendations from LDEQ or from GGNS and assist in determining Protective Action Decisions.
- Ensure Protective Action Decisions are implemented and coordinate operational elements for implementation of the protective response recommendations with GOHSEP.
- Coordinating overall emergency operations to protect life and property at the local level.
- Ensuring warning and notification of persons within the 10-mile EPZ, as necessary.
- Maintaining adequate communications to conduct and coordinate local emergency operations.
- Coordinating with the Public Information Officer to disseminate public information.

The Homeland Security and Emergency Preparedness Coordinator has appointed a Public Information Officer, Radiological Officer, and Communications Officer to assist him with certain functions.

The Public Information Officer is responsible for:

- Participating in the Parish-level program aimed at educating the public on response to an accident at Grand Gulf Nuclear Station.
- Providing liaison with news media organizations prior to and during an emergency.

- Assisting in preparation of news releases in conjunction with the Joint Information Center for dissemination to the public.
- Coordinating with the Joint Information Center and rumor control center.

The Radiological Officer is responsible for:

- Establishing arrangements for the surveying and decontamination of emergency personnel and vehicles, and coordinating this effort with LDEQ
- Distribution of dosimetry devices to emergency personnel and maintenance of related records.
- Ensuring that emergency personnel in the field are informed of radiological conditions and necessary protective actions, as necessary.
- Maintaining an inventory of radiological equipment within the parish.
- Gathering radiological information and keeping records on the radiological response efforts.

The Communications Officer is responsible for:

- Ensuring the maintenance and availability of communication equipment and all call lists necessary to provide alert/notification and communications support in an emergency.
- Initiating the communication of the alert/notification message to emergency response organizations.
- Establishing and maintaining a communications system capable of linking the Tensas Parish EOC with Grand Gulf Nuclear Station, State response agencies, Parish emergency response agencies, and Claiborne County.
- Recruiting and training radio operators and telephone attendants.

d. Sheriff's Office

The Sheriff's Office is the lead law enforcement and traffic control

agency within Tensas Parish and has overall control of all safety operations within the parish. The Sheriff, as the Chief Law Enforcement Officer, will be responsible for:

- Providing 24-hour per day monitoring of the Grand Gulf Nuclear Station Operational Hotline within the Parish.
- Managing the evacuation of portions of the Parish within the 10-mile EPZ.
- Direction and control of traffic within the Parish.
- Preservation of law and order.
- Instituting access control and area security.
- Assisting in performing search and rescue work, as required.
- Assisting in warning residents and transients, as required.
- Providing assistance to, and liaison with, outside law enforcement agencies as required.
- Coordination with local and state law enforcement agencies to provide emergency support operations.
- Emergency communications support.
- Providing a representative to the parish EOC, as requested, during an emergency.

e. Municipal Police Departments

The Police Department within each municipality of Tensas Parish (St. Joseph, Newellton), under the direction of the respective Chief of Police, is responsible for generally maintaining law and order in the community, including the security of key facilities. Each Chief of Police is responsible for:

- Assistance in warning residents and transients, as required.
- Controlling evacuation traffic within the city limits.
- Control of law and order within the city.
- Providing security controls for key facilities, including the EOC.

- Providing a representative to the EOC, as requested, during an emergency.
- Assisting and coordinating with the Sheriff as necessary.

f. Volunteer Fire Departments

The Volunteer Fire Department within each municipality (St. Joseph, Newellton) supports Homeland Security and Emergency Preparedness by providing technical assistance, manpower, and equipment to aid disaster victims. Under the direction of the respective Chief, the Fire Department is responsible for:

- Assisting in the evacuation of non-ambulatory personnel.
- Providing fire and rescue aid.
- Assisting in warning and notification of the public within the EPZ, if needed.
- Assisting in radiological monitoring and decontamination of evacuees and emergency personnel and vehicles as necessary.
- Providing a representative to the EOC, as requested, during an accident.

g. School Board

The Tensas Parish School Board, under the direction of the Superintendent, is responsible for:

- When school is in session, providing school buses and drivers for evacuation of students and school personnel from schools within the plume exposure EPZ.
- Providing school buses and bus drivers for assisting evacuation of residents and transients from the affected areas.
- Maintaining communications with the Parish EOC on operations and support needs and coordinating with other agencies on support services.
- Providing an emergency representative to the Parish EOC, as

requested, during an accident.

- Coordinating with American Red Cross in providing school facilities for reception centers and shelters.

h. Northeast Louisiana Ambulance Service

The Service, under the direction of the Director, is responsible for:

- Providing rescue and emergency medical services, including the transportation of victims of radiological incidents.
- Providing transportation support for non-ambulatory evacuees.
- Coordinating with local medical practitioners and hospitals.
- Maintaining communications with the Parish Sheriff's Office.

i. Tensas Parish Police Jury Highway Department

The Tensas Parish Police Jury Highway Department, under the direction of the Director, is responsible for:

- Assisting in traffic control and re-entry/recovery operations by providing signs and barriers.
- Coordinating resources available to the Parish and municipalities.
- Providing highway maintenance and clearing impediments to allow road passage.
- Coordinating with the State Department of Transportation and Development and Office of Highways personnel for additional assistance as required.
- Providing an emergency representative to the Parish EOC, as requested, during an accident.

2. Parish-Level State Support Agencies

a. Health Unit (DHH)

In conjunction with the State Department of Health and Hospitals, the Parish Health Unit is responsible for:

- i. Assisting in the coordination of required medical services.
- ii. Assisting with expedient acquisition of radio-protective drugs (i.e., KI) and for their use by emergency works and institutionalized persons, if required.
- iii. Assisting in collection of water and milk samples, and transportation of such samples for laboratory analysis.
- iv. Maintaining communications with the Parish EOC on operations and support needs and coordinate with other agencies on support services as needed.
- v. Providing an emergency representative to the Parish EOC, as requested, during an emergency.
- vi. In coordination with the FDA, provide for the collection of water, milk, sewage, and food samples from food processing plants, and for the transportation of such samples for laboratory analysis, during a radiological emergency.
- vii. In coordination with the Department of Agriculture and Forestry, USDA, and LDEQ, when requested, provide guidance and advice on identifying storing and disposing of contaminated agricultural products.
- viii. In coordination with the FDA, provide guidance for the diversion or destruction of radiologically contaminated food, crops, and milk during an accident.
- ix. Provide for the inspection of shelter facilities to ensure that adequate sanitary, water, and food service is available for the number of people assigned.
- x. Provide guidance and advice to water purification facilities of an accident and advice on the appropriate protective action.
- xi. Support the relocation of hospital patients from hospitals within the risk areas to identified support hospitals, during an accident.
- xii. Assist in the provision of mass emergency medical transportation resources to be used for the relocation of hospital patient during an accident.
- xiii. Support risk health care facilities and risk Parishes with identification and coordination of medical resources.

b. Parish Extension Service

The Tensas Parish Extension Service, under the direction of the County Agent, in cooperation with the State Department of Agriculture

and Forestry and USDA, is responsible for:

- Providing general assistance and coordination with USDA federal disaster assistance programs to include crop loss, livestock feed, and other emergency measures as applicable.
- Disseminating agricultural advisories to affected Parish farmers and other agribusinesses during an accident at Grand Gulf Nuclear Station.
- Assessing damage to Parish crops and livestock in the event of an emergency.

c. State Police (Troop F)

In conjunction with the State Department of Public Safety and Corrections, the State Police will be responsible for the following:

- In coordination with the Sheriff, assisting in traffic control operations during an evacuation, particularly on State or Federal highways.
- In coordination with the Sheriff, assist in establishing access control to affected areas.
- In coordination with the Sheriff, assist in security and law enforcement support for affected areas.
- Provide communications support, if necessary.
- Provide a representative in the Parish EOC, as requested, to coordinate State Police support with the State EOC.

3. American Red Cross

The American Red Cross, under the direction of the Regional Administrator, is responsible for:

- Providing reception and care for evacuees, including feeding, funding, lodging and clothing, assistance to shelter managers, special assistance to evacuees, and additional shelter space if required.
- Coordinating with Parish Louisiana Department of Children and Family Services, State Department of Health and Hospitals and its Regional Administrator.

4. Tensas Parish Council on Aging

The Tensas Parish Council on Aging, under the direction of the Director, is responsible for:

- Assisting in resolving special needs of evacuees at reception centers and shelters.
- Providing transportation assistance for disabled and elderly evacuees.

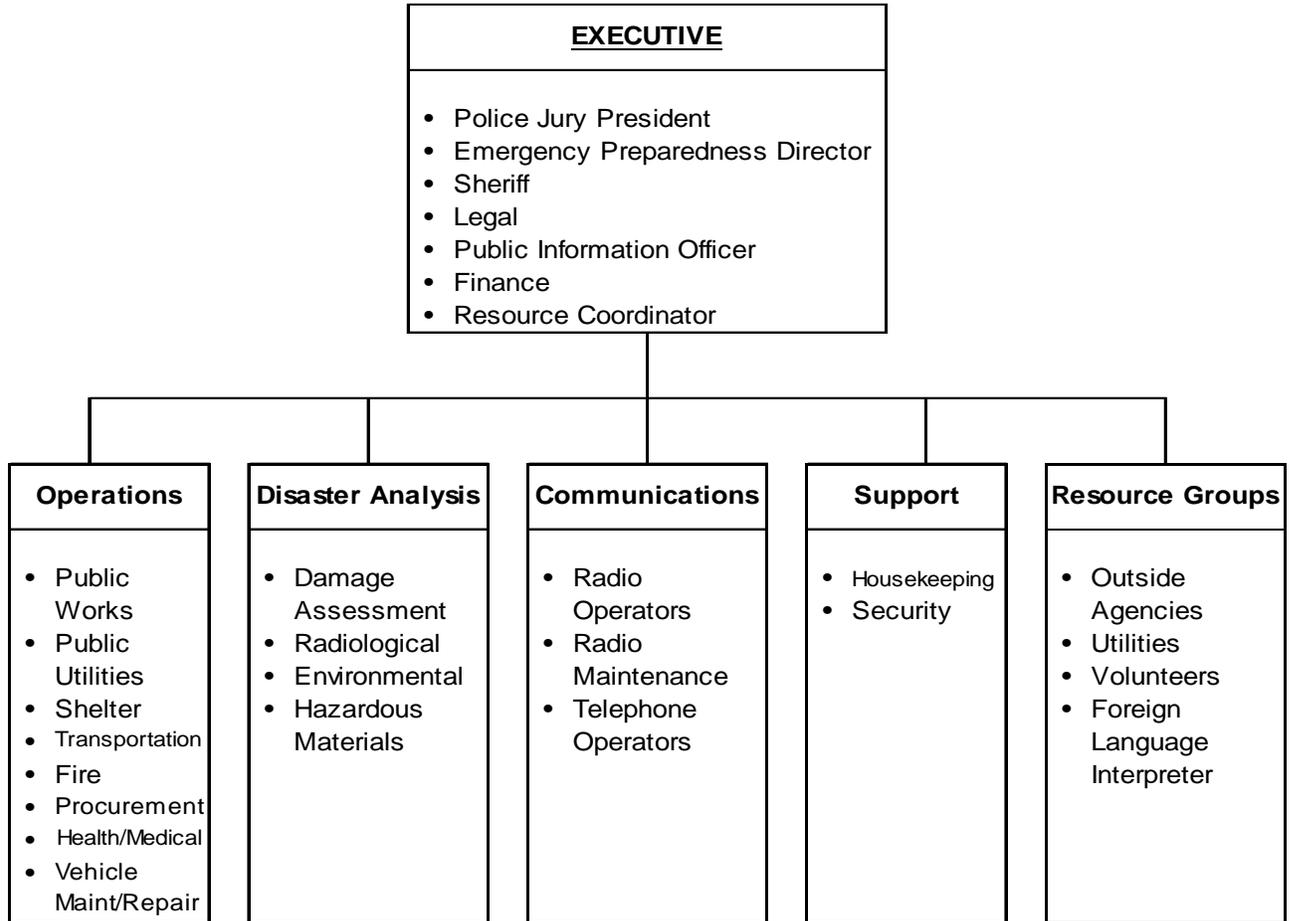
5. Office of State Parks

The Lake Bruin State Park Ranger will provide for the notification and evacuation of people using the park when necessary. When appropriate, the ranger will provide for the use of park areas and facilities for sheltering of evacuees.

**NOTE:** See LPRRP, Section VI for further details on State responsibilities.

**FIGURE D-1**

**Tensas Parish Emergency Preparedness Organizational Chart**



**FIGURE D-2**

**Tensas Parish  
Emergency Function and Responsibility Matrix**

Tensas Parish Emergency Function and Responsibility Chart  P = Primary S = Secondary/Support	Police Jury President	Emergency Preparedness Coordinator	Municipal Governments	Sheriff's Office	Municipal Police Department	Volunteer Fire Departments	Public Information Officer	Communications Officer	Ambulance Service	Radiological Officer	Parish Highway Department	Parish Extension Service	Parish School Board	Parish Health Unit	Council on Aging	Children & Family Services	State Parks	American Red Cross	State Police	Grand Gulf Nuclear Station	State Government
	Direction & Control	P	S	S																	
Parish Notification																				P	S
Emerg. Worker Notification		P		S				P													
Public Alert/Notification		P		S	S	S						S					S				S
Prot. Action Recommendation																				S	P
Prot. Action Implementation	P	S	S																		
Communications		P		S				P											S		S
Public Information	P	S					P													S	S
Field Sampling												S									P
Accident Assessment																				S	P
Public Health												S		P		S					S
Social Services															S	P		S			S
Fire/Search and Rescue				S		P															
Emergency Medical Services									P					S							S
Traffic Control				P	S						S									S	
Access Control				P																S	
Law Enforcement				P	S															S	
Transportation						S			P				P		S						S
Rad. Exposure Control		P				S				P				S							S
Food & Water Purity												S		S							P
Shelter and Care													S	S	S	S	S	P			S
Highway Maintenance											P										S
Security				P	S															S	
Accident Classification																					P

## **E. Notification and Activation**

Once an emergency classification has been declared at GGNS, the Control Room will notify the Parish warning points. Shifts of dispatchers at the Parish Sheriff's Office will provide for 24-hour per day coverage of the communications equipment. The primary means of notification is the GGNS Operational Hotline; the secondary means of notification as commercial telephone (see Section F – Emergency Communication. The third means of notification is the GGNS Radio link. When the Communications Center in the Parish EOC is activated, the Parish's responsibility for receiving notifications will shift to the EOC Communications Center, which is expected to occur during the early stages of an Alert emergency classification.

Notification messages will be verified by the dispatcher in accordance with established procedures.

This emergency response plan will be activated by the Police Jury President through the Homeland Security and Emergency Preparedness Coordinator. Local response organizations will be notified of the emergency by the Parish. Such notification messages will specify whether the organization should stand by, or start to mobilize emergency response personnel. Emergency response personnel will be called to duty using the alert/notification call system of the response agency. Support agencies will be alerted by the agency they are supporting. Should mobilization be required, emergency response personnel will report to their agency response center for specialized equipment and further instruction.

The sequences for anticipated notifications and activation of emergency response personnel for each emergency classification are provided below. Details of notification and activation consistent with the emergency classification scheme are provided in established procedures.

### **1. Notification of Unusual Event**

#### **a. Notification**

Upon receipt of a classification of Notification of Unusual Event by GGNS, the Parish dispatcher will notify the Homeland Security and Emergency Preparedness Coordinator and other key individuals consistent with this classification and in accordance with established procedures utilizing the paging system described in Section F.

#### **b. Activation**

No activation of emergency response personnel or emergency facilities is anticipated for the Notification of Unusual Event. However, such action can be taken if deemed appropriate at the time. The Homeland Security and Emergency Preparedness Coordinator will monitor the situation and be prepared to escalate to a higher level of response if the situation warrants, or stand by until closeout of the emergency.

### **2. Alert**

a. Notification

Upon receipt of a classification of Alert by GGNS, the Parish dispatcher will notify the Homeland Security and Emergency Preparedness Coordinator, other key individuals, and other supporting response organizations consistent with this classification and in accordance with established procedures utilizing the paging system described in Section F. The Department Directors will, in turn, alert to a standby status appropriate emergency personnel in their respective organizations by telephone or two-way radio. Also, KNOE-AM and KNOE-FM, the EAS (formerly EBS)\* radio stations, will be alerted to standby via Tensas Parish EOC.

b. Activation

Upon notification, the Homeland Security and Emergency Preparedness Coordinator and key staff will augment the Parish's emergency response resources by bringing the Parish EOC to a standby status. All supporting response organizations will maintain standby status until closeout or escalation of the emergency.

3. Site Area Emergency

a. Notification

Upon receipt of a classification of Site Area Emergency by GGNS, the Parish dispatcher will notify the Homeland Security and Emergency Preparedness Coordinator, other key individuals, and other supporting response organizations consistent with this classification and in accordance with established procedures. The paging system described in Section F will be utilized. The Department Directors will, in turn, notify key emergency personnel in their respective departments by telephone or two-way radio. KNOE-AM and KNOE-FM, the EAS radio stations, will be notified and brought to standby status (if not previously alerted) and, if appropriate, given messages to broadcast consistent with the situation via Tensas Parish EOC.

b. Activation

Upon notification, the Homeland Security and Emergency Preparedness Coordinator will activate the Parish EOC and other emergency response centers as appropriate. All local emergency response organizations will report to their duty stations. Traffic control and transportation support personnel will prepare for possible evacuation, and reception centers will prepare for opening should conditions warrant. KNOE-AM and KNOE-FM, the EAS radio stations, will provide the public in the affected areas of Tensas Parish, out to a 10-mile radius of GGNS, with periodic updates of the emergency.

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\*The terminology is effective Nov. 10, 1994. It must be implemented by July, 1997 based on FCC Guidelines.

4. General Emergency

a. Notification and Activation

Upon receipt of a classification of General Emergency by GGNS, the Parish dispatcher will notify the Homeland Security and Emergency Preparedness Coordinator, other key individuals, and other supporting response organizations in accordance with established procedures, and emergency response centers will be activated. The Alert Notification System will be activated in the Parish.

All other response actions will be as for a Site Area Emergency.

5. Notification of the Public

- a. The primary alert system for Tensas Parish is comprised of a combination of fixed sirens, tone activated radios, and the U.S. Coast Guard for the notification of ships along the Mississippi River.
- b. Upon determination that conditions at GGNS warrant protective actions, the Homeland Security and Emergency Preparedness Coordinator will issue instructions for the activation of the primary alert system and coordinate the timing of this activation with the State and Claiborne County (Mississippi).
- c. Should an element of the primary alert system fail, the Homeland Security and Emergency Preparedness Coordinator has available a number of backup methods including route alerting in populated and wetland areas, commercial telephone, and tone activated radios.
- d. Once a decision is made by the Police Jury President to activate the Alert Notification System, the Homeland Security and Emergency Preparedness Coordinator will verify that KNOE-AM and KNOE-FM, the primary EAS radio stations, are prepared to broadcast a prepared message. Tensas Parish will coordinate this information with GOHSEP, who in turn will release protective action messages through the statewide EAS.

## **F. Emergency Communications**

This section describes the various communications systems available for prompt communications among principal organizations and emergency personnel, and to the public. A summary of communications systems available is shown in Figure F-1.

The Parish EOC provides the focus of communications for emergency operations. Direction, control and coordination emanates from the EOC through the Police Jury President and the Homeland Security and Emergency Preparedness Coordinator. Data and feedback relevant to the administration of emergency operations will be directed to the EOC.

### **1. GGNS Operational Hotline**

The primary means of 24-hour per day notification and communications between GGNS and the Tensas Parish emergency response organization is the GGNS Operational Hotline. This is a dedicated telephone system which allows Tensas Parish, Claiborne County, LDEQ, GOHSEP, MEMA and Mississippi Highway Patrol to receive emergency notification messages from GGNS simultaneously.

Locations equipped with a GGNS Operational Hotline include, but are not limited to, the following:

- GGNS Control Room
- GGNS Technical Support Center (TSC)
- GGNS Emergency Operations Facility (EOF)
- Tensas Parish EOC, St. Joseph
- Tensas Parish Sheriff's Office, St. Joseph
- Claiborne County
- LDEQ Office, Baton Rouge
- GOHSEP EOC, Baton Rouge

Tensas Parish Sheriff's Office will provide for 24-hour per day monitoring of the GGNS Operational Hotline within the Parish.

In addition, the capability exists for GGNS to transmit hard-copies of emergency information to the Tensas Parish EOC, as well as Claiborne County, the GOHSEP EOC, the LDEQ Office, and MEMA Office. Types of information that can be received on hard-copy include initial and follow up notification messages, plant status, release information, dose projections, protective action recommendations, and press releases.

### **2. Back-up Communication System**

GGNS has a radio system which serves as the backup communications system to the GGNS Operational Hotline. A receive-transmit console, available at the

Tensas Parish Sheriff's Office, will provide 24-hour per day monitoring of the Civil Defense Radio System within the Parish.

3. Agency Radio Systems

Fixed, mobile and hand-held radios operating on law enforcement and fire/rescue frequencies provide for communication between the Parish EOC and representatives from the following organizations:

- Sheriff's Office
- Municipal Police Departments
- Volunteer Fire Departments
- Parish Highway Department
- State Police

4. Medical Support Facilities Communications Systems

A coordinated communications link for the Parish EOC, Riverland Medical Center, and Northeast Louisiana ambulance services is provided. These systems are comprised of either fixed/mobile radios or commercial telephones.

5. Commercial Telephone

- a. Commercial telephone service is available at each emergency response facility and provides the primary communication link between most facilities. It can also be used as an alternate communication system. Tensas Parish is serviced by AT&T.
- b. Tensas Parish has requested priority service from the AT&T Telephone Company for restoring service provided in the Parish EOC.

6. Paging System

Key emergency personnel in the emergency response organizations and supporting emergency personnel can be contacted through the paging system.

7. Alert Notification System

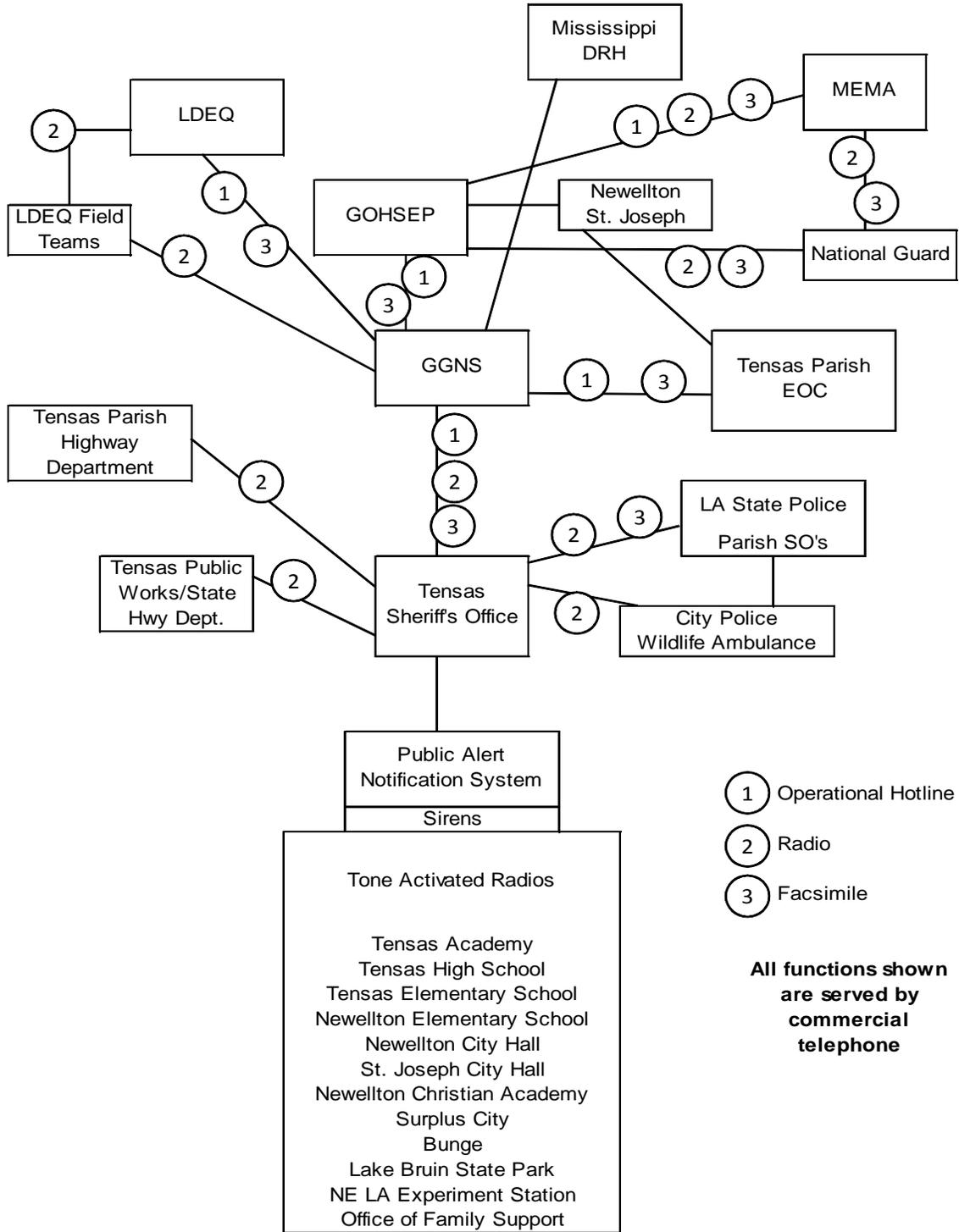
- a. An Alert Notification System located throughout the 10-mile EPZ will be used to alert the public to listen to KNOE-AM or KNOE-FM, the EAS radio stations. That portion of the system located within the Parish will be activated from the Parish EOC. This system is maintained under contract by GGNS. Special notification devices (tone activated alarm pagers) are provided for special facilities including schools, hospital, and major employers. Facilities with special notification devices are shown in Figure F-1. When activated, the Emergency Preparedness Coordinator can provide information and instructions over the system.
- b. Mobile sirens and public address systems mounted on patrol cars, fire department and other emergency vehicles could provide backup to the Alert Notification System.

8. Testing

Periodic testing of emergency communications and the Alert Notification System will be conducted on a regularly scheduled basis (approximately monthly) in accordance with established procedures.

**FIGURE F-1**

**Tensas Parish Communications System**



**G. Protective Response for the Plume Exposure Pathway (10-mile EPZ)**

1. Louisiana Department of Environmental Quality (LDEQ) will notify Tensas Parish of protective response recommendations based on accident conditions.
2. The Parish will make a decision on the implementation of these recommendations based on local conditions and report its decision to LDEQ.
3. Tensas Parish will coordinate operational elements for implementation of the protective response recommendation with Louisiana Governor's Office of Homeland Security and Emergency Preparedness (GOHSEP).
4. Predetermined protective actions will be taken when the projected dose at any place and time appears to be at or above those recommended in Protective Action Guides (PAGs).

The Parish and the 10-mile EPZ have been divided into Protective Action Sections (PAS) for designation of threatened areas and to denote where protective actions are to be taken. Chapter 3 and Tab A to Appendix B in the General Plan address the PAS in detail.

5. Protective Actions

Actions taken to protect the public may include any or all of the following:

- a. Notification of affected residents and transients to seek immediate shelter,
- b. Evacuation of transients and residents within a designated Protective Action Section to shelter areas outside the ten mile EPZ,
- c. Control of entrance into affected areas,
- d. Implementation of procedures to prevent the consumption and distribution of contaminated food and water supplies,
- e. Implementation of procedures to decontaminate persons when necessary.

6. Control of Entrance into Affected Areas

- a. Under certain conditions, action will be taken to limit the number of people who enter an affected area. These conditions will be determined by the Police Jury President and the Mayors of St. Joseph and Newellton upon recommendations from LDEQ.
- b. The Parish Sheriff's Office and St. Joseph and Newellton law enforcement personnel will provide support to control access with assistance as requested from Louisiana State Police.

7. Sheltering (in-place)

The decision to recommend taking shelter indoors will be made by the Parish President through the advice of LDEQ. The notification to take shelter indoors will be issued via the Alert Notification System and the EAS.

8. Evacuation

a. Evacuation of the Utility

Tensas Parish will not assist the evacuation of the utility.

b. Evacuation of the General Public

i. Evacuation of any affected sections within Tensas Parish will be at the discretion and direction of the Police Jury President.

ii. If a "State of Emergency" has been declared by the Governor, then, under the provisions of the Louisiana Homeland Security and Emergency Assistance and Disaster Act, the Governor would direct the evacuation jointly with the Police Jury President.

iii. The basis for a decision to evacuate will be recommendations from Louisiana Department of Environmental Quality, based on accident assessment and operational considerations at the time of emergency.

iv. If the order to evacuate is given, evacuation will be by Protective Action Section.

v. Citizens residing in a given section which is to be evacuated will be instructed to proceed according to predetermined evacuation routes. All evacuation routes will lead citizens toward a reception center. Evacuees from Tensas Parish will initially report to reception centers at Ferriday High School or Richmond Civic Center for registration, monitoring and decontamination (as required). If necessary, evacuees will then be routed to temporary shelters. Figure G-1 shows the location of the reception center and shelter areas.

vi. The primary means of evacuating residents, transients, and industrial workers from the 10-mile EPZ will be by private automobiles. Announcements will be made via the EAS requesting that car-pooling arrangements be implemented to accommodate those without transportation, and multiple-car families will be encouraged to take only one car to minimize traffic congestion.

c. Strict traffic control measures will be utilized to:

i. control ingress and egress of affected areas;

ii. maintain orderly flow of evacuated traffic;

iii. remove impediments on evacuation routes;

- iv. assure access by ambulance and rescue vehicles; and
- v. assure area security.

For further details on traffic and access control, including locations, refer to the Tensas Parish Sheriff's Department Emergency Implementing Procedure.

- d. Periodic patrols by law enforcement and/or other emergency personnel will canvas areas to:
  - i. maintain order;
  - ii. assist disabled evacuees;
  - iii. confirm evacuation and remove remaining persons as required.

9. Evacuation for Special Needs

The Homeland Security and Emergency Preparedness Coordinator will ensure that a current list of special needs evacuees is available. The Homeland Security and Emergency Preparedness Office will also ensure that special needs people will be provided transportation as required. Special needs evacuees who are not evacuated by private vehicles will be evacuated by rescue/emergency vehicles or school bus.

a. Schools

- i. Protective response measures will be implemented to minimize radiological exposure risks to school children.
- ii. If a decision to evacuate is made during school session, school children located within the 10-mile Emergency Planning Zone will be placed on school buses and transported outside the 10-mile Emergency Planning Zone to a designated Reception Center.
- iii. Children will remain under the supervision of school personnel until they are returned to their parents.

b. Medical Facilities

Emergency plans and operating procedures for Tensas Nursing Home, located in Newellton, provide for transportation of patients or residents to predesignated reception centers in Madison and Franklin Parish.

c. Incarceration Facilities

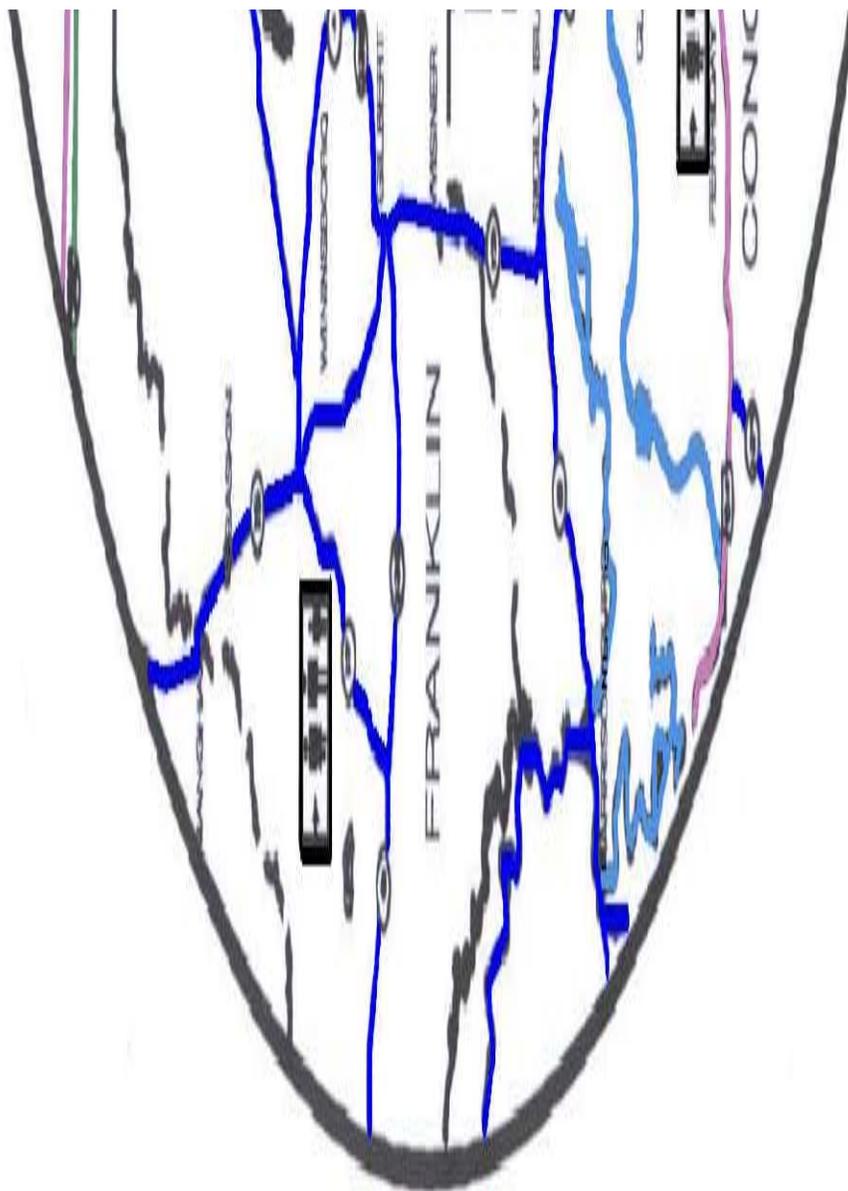
An agreement with Franklin Parish provides for the transportation of Tensas Detention Center prisoners to Franklin Parish detention facilities using Franklin Parish Sheriff's Department vehicles.

d. Major Industry and Parks

- i. Major industries and industrial parks which lie within the Parish portion of the 10-mile EPZ will be notified.
- ii. No additional transportation is expected to be needed beyond vehicles already available at these locations at the time of an emergency.

**FIGURE G-1**

**TENSAS PARISH RECEPTION CENTERS AND SHELTER LOCATIONS**



**FIGURE G-1a**

**RECEPTION CENTER LISTING**

Reception Centers:	Capacity
Ferriday High School 801 EE Wallace Boulevard Ferriday, LA	1800
Richmond Civic Center 602 Wood Street Tallulah, LA	280
Franklin Parish High School 1600 Glover Drive Winnsboro, LA	1500

## H. Public Health Support

### 1. Reception and Care

Following decontamination, if necessary, at the reception center, an initial registration of evacuees will be accomplished by the Extension Service. Health and medical care will be provided to evacuees as necessary. Evacuees will be directed to shelters made available through the American Red Cross.

A second, more detailed registration of evacuees will be accomplished at the shelters by the American Red Cross in conjunction with the Louisiana Department of Children and Family Services. Registration data will be tabulated and submitted to the Emergency Operations Center. Food, clothing, and health and medical care will be provided to the evacuees as needed. When the situation subsides, evacuees will be allowed to re-enter the affected area in accordance with procedures described in the General Plan.

### 2. Medical

Contaminated injured personnel will be treated at Riverland Medical Center primarily. The secondary or backup hospital for contaminated injured is the Ochsner Medical Center.

## I. Appendices

**Appendix I-1:** List of Letters of Agreement

**Appendix I-2:** List of Tensas Parish Radiological Emergency Implementing Procedures.

## APPENDIX I-1

### LIST OF LETTERS OF AGREEMENT

#### Reception and Care

- American Red Cross
- Village of Richmond
- Town of Ferriday
- Town of Winnsboro

#### Emergency Broadcast

- KNOE-AM, KNOE-FM Radio (EAS), KNOE TV8

#### Emergency Transportation

- Parish School Board
- Northeast Louisiana Ambulance

#### Emergency Medical

- Riverland Medical Center
- Ochsner Foundation

#### Other

- AT&T

## APPENDIX I-2

### List of Tensas Parish Radiological Emergency Implementing Procedures

<u>Department/Individual</u>	<u>Procedures</u>
Office of Homeland Security and Emergency Preparedness/ Emergency Preparedness Director	<ul style="list-style-type: none"> <li>- Emergency Preparedness Agency's Actions During Notification of Unusual Event, Alert, Site Area Emergency, and General Emergency</li> <li>- Emergency Preparedness Agency's Actions for Sheltering and Evacuation</li> <li>- Emergency Preparedness Agency's Actions during Re-entry and Recovery</li> </ul>
Office of Homeland Security and Emergency Preparedness/ Radiological Defense Officer	- Radiological Defense Officer's Actions during Notification of Alert, Site Area Emergency, and General Emergency
Office of Homeland Security and Emergency Preparedness/Public Information Officer	- Public Information Officer's Actions during Notification of Alert, Site Area Emergency, and General Emergency
Sheriff's Office/Sheriff Deputies	- Sheriff and Deputies Actions during notification of Alert, Site Area Emergency, and General Emergency
Police Department/Chief of Police Officers	- Chief of Police and Officers Actions during Notification of Alert, Site Area Emergency and General Emergency
Fire Department/Fire Chief, Fireman	- Fire Chief and Fireman's Actions during Notification of Alert, Site Area Emergency and General Emergency
School Board/School Superintendent, Bus Drivers, Staff	- School Superintendent, Bus Drivers and Staff's Actions during Notification of Alert, Site Area Emergency and General Emergency
Highway Department/Highway Director, Staff	- Public Works Direction and Highway Staff's Actions during Notification of Alert, Site Area Emergency and General Emergency
Parish Rescue Service/Director, Staff	- Parish Rescue Service Director and Staff's Actions during Notification of Alert, Site Area Emergency and General Emergency
Elected Officials/Police Jury, Mayor	- Elected Officials Actions during Notification of Alert, Site Area Emergency and General Emergency
Dispatcher/Communicator	- Receipt of Notification and Call Outs Actions during Notification, Unusual Event, Alert, Site Area Emergency, and General Emergency

## APPENDIX I-2 (continued)

### List of Tensas Parish Radiological Emergency Implementing Procedures

Procedure	NUREG	Section(s) Implemented
Police Jury President	A.1.d	Enclosure I, Sections C and D
	A.2.a	Enclosure I, Section D and Figure D-2
	D.4	Attachment 2, Section IV, Chapter 1, Enclosure I, Section E
	E.6	Enclosure I, Sections G and F.7
Public Information Officer	A.2.a	Enclosure I, Section D and Figure D-2
	D.4	Attachment 2, Section IV, Chapter 1, Enclosure I, Section E
	G.4.a	Attachment 2, Section IV, Chapter 2.B, Enclosure I, Section D.1.c
	G.4.c	Attachment 2, Section IV, Chapter 2.B
Radiological Defense Officer	A.2.a	Enclosure I, Section D and Figure D-2
	D.4	Attachment 2, Section IV, Chapter 1, Enclosure I, Section E
	K.3.a	Attachment 2, Section IV, Chapter 5
School Principal	A.2.a	Enclosure I, Section D and Figure D-2
	E.2	Enclosure I, Sections E and F.6
Rumor Control	D.4	Attachment 2, Section IV, Chapter 1, Enclosure I, Section E
	G.4.c	Attachment 2, Section IV, Chapter 2.B
Transportation Coordinator	D.4	Attachment 2, Section IV, Chapter 1, Enclosure I, Section E
Mayors	A.2.a	Enclosure I, Section D and Figure D-2
	D.4	Attachment 2, Section IV, Chapter 1, Enclosure I, Section E
Sheriff's Department	A.2.a	Enclosure I, Section D and Figure D-2
	D.4	Attachment 2, Section IV, Chapter 1, Enclosure I, Section E
	J.10.c	Enclosure I, Section E.5 and Section F.7
	J.10.g	Enclosure I, Section G.3
	J.10.j	Enclosure I, Sections D.1.d, G.1 and G.3
Miscellaneous Facilities		
Public Alert	E.5	Attachment 2, Section IV, Chapter 2; Enclosure I, Sections E and F.7
	E.7	Attachment 2, Section IV, Chapter 2, Tab A; Enclosure I, Section E.5
Monitoring & Decontamination	J.12	LPRRP, Chapter 9, Section IV; Attachment 2, Section IV, Chapter 5.B; Enclosure I, Sections D.1.f

Emergency Preparedness Coordinator	A.2.a	Enclosure I, Section D and Figure D-2
	D.4	Attachment 2, Section IV, Chapter 1, Enclosure I, Section E
	E.1	Attachment 2, Appendix A, Tab B; Enclosure I, Section E
	J.10.f	LPRRP, Chapter 9, Section IV.A; Attachment 2, Section IV, Chapter 5.B.4
	P.3	Enclosure I, Section D.1.c
Parish Spokesperson (JIC)	A.2.a	Enclosure I, Section D and Figure D-2
	D.4	Attachment 2, Section IV, Chapter 1, Enclosure I, Section E
	G.4.a	Attachment 2, Section IV, Chapter 2.B, Enclosure I, Section D.1.c
	G.4.c	Attachment 2, Section IV, Chapter 2.B
Communicator/Dispatcher	A.1.e	Enclosure I, Sections E, F.1 and F.2
	A.2.a	Enclosure I, Section D and Figure D-2
	D.4	Attachment 2, Section IV, Chapter 1, Enclosure I, Section E
	E.1	Attachment 2, Appendix A, Tab B; Enclosure I, Section E
	E.2	Enclosure I, Sections E and F.6
	F.1.e	Enclosure I, Sections E., F.2 through F.6
Highway	A.2.a	Enclosure I, Section D and Figure D-2
	J.10.k	Enclosure I, Section D.1.i and Section G.3
Parish Support Services	A.2.a	Enclosure I, Section D and Figure D-2
	D.4	Attachment 2, Section IV, Chapter 1, Enclosure I, Section E
	J.10.d	Enclosure I, Section G.3
	J.12	LPRRP, Chapter 9, Section IV; Attachment 2, Section IV, Chapter 5.B; Enclosure I, Sections D.3, G.3 and H.1
Police Department	A.2.a	Enclosure I, Section D and Figure D-2
	D.4	Attachment 2, Section IV, Chapter 1, Enclosure I, Section E
	J.10.c	Enclosure I, Section E.5 and Section F.7
	J.10.g	Enclosure I, Section G.3
	J.10.j	Enclosure I, Sections D.1.e, G.1 and G.3