

**Interim Finding Report for Reasonable Assurance  
On the adequacy of the offsite  
Radiological Emergency Response Planning and Preparedness  
For the  
Grand Gulf Nuclear Station (GGNS)  
March 2, 2009**

Prepared by the  
U.S. Department of Homeland Security  
Federal Emergency Management Agency  
National Preparedness Directorate  
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Region IV & Region VI

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## EXECUTIVE SUMMARY

Entergy Operations, Inc. submitted a combined license application to the Nuclear Regulatory Commission (NRC) on February 27, 2008 for one new reactor, Unit 3. On March 3, 2008, the application was provided to the Federal Emergency Management Agency (FEMA) Radiological Emergency Program Branch Chief with a request for FEMA to perform an acceptance review of the application material with respect to the offsite emergency planning information. On March 27, 2008, a letter was provided to the NRC from the Acting Director of the Technological Hazards Branch Chief stating that additional information was necessary to support the start of Phase I of the offsite technical review. Due to the delay in obtaining the material and information requested in the acceptance review, the Phase I review was not completed by FEMA Region VI until October 8, 2008. Interim findings from the Phase I offsite technical review are provided in this report.

FEMA Region IV conducted a plan review associated with the application by Entergy Operations for a combined operating license (COL) at the Grand Gulf Nuclear Station (GGNS) site for one additional reactor in accordance with the requirements of 44 CFR 350, its applicable planning standards and the evaluation criteria established in NUREG-0654/FEMA REP-1, rev.1, 1980, as amended.

Grand Gulf Nuclear Station Exercise Report transmittal letter from FEMA to the Region IV Administrator, Nuclear Regulatory Commission. Region IV submitted an Acceptance Review completion letter on March 26, 2008 to FEMA Headquarters. The initial review of the submitted plans and procedures was completed and an Interim Findings Report with Requests for Additional Information (RAI) was forwarded to FEMA Headquarters on October 10, 2008. In a letter to FEMA Headquarters dated October 22, 2008 the Planning Issues were changed to Requests for Additional information. On December 18, 2008 a letter from Region IV to the Mississippi Emergency Management Agency (MEMA) indicated there were three remaining Requests for Information still open. On January 13, 2009 FEMA Region IV reported the status of open items for the Grand Gulf COL application review to FEMA Headquarters. On January 28, 2009 the State of Mississippi supplied FEMA Region IV with follow up information and Letters of Agreement to close the open items previously discussed with the State. Upon review of this information all open issues for Offsite Planning associated with the Grand Gulf Nuclear Station COL were closed.

The State of Mississippi's capability has been well demonstrated through their integral involvement in the development of the current plans and procedures for the existing reactor at the Grand Gulf Nuclear Station site, as well as the other sites affecting the State of Mississippi. Further the State and Claiborne County have demonstrated through biennial exercises that the capabilities exist to successfully respond to an incident at the Grand Gulf Nuclear Station. They have also certified through their annual letter of certification compliance with the planning standards set forth in 44 CFR 350. The biennial exercises and the annual letters of certification serve as the basis for their continued 'reasonable assurance' findings by FEMA at this site.

The State and local governments' plans and procedures, associated with the government's response to a radiological incident at the Grand Gulf Nuclear Station, reviewed by FEMA Region IV are listed in Section I, paragraph C.

Through thorough review of the submitted COL Application and related submitted documents, FEMA Region IV has determined that the State and local plans address the criteria set forth in NUREG 0654/FEMA REP-1, rev. 1, 1980 as amended.

## **I. INTRODUCTION**

### **A. General Characteristics of the Grand Gulf Nuclear Station**

The proposed Grand Gulf Nuclear Station, Unit 3 will be located on the current Grand Gulf Nuclear Station site. The proposed Unit 3 is a General Electric Economic Simplified Boiling Water Reactor (ESBWR). The Grand Gulf site is located on the Mississippi River approximately five miles northwest of Port Gibson, Mississippi, in Claiborne County. The 10 mile Plume Exposure Pathway EPZ for the GGNS is divided between Mississippi and Louisiana, with about two-thirds of the zone in Mississippi. Most of the Mississippi portion is in Claiborne County, and an unpopulated area of Warren County, Mississippi.

The 50 mile Ingestion Exposure Pathway EPZ for the GGNS is divided between Mississippi and Louisiana, with about two-thirds of the zone in Mississippi, impacting 16 counties (Adams, Amite, Claiborne, Copiah, Franklin, Hinds, Issaquena, Jefferson, Lawrence, Lincoln, Madison, Pike, Rankin, Sharkey, Simpson, Warren, Wilkinson, and Yazoo).

The area within a 10-mile radius of the Grand Gulf Nuclear Station (GGNS) is within the State of Louisiana and the State of Mississippi. The Emergency Planning Zone (EPZ) includes Tensas Parish in Louisiana and Claiborne County in Mississippi. The plant site is on the east bank of the Mississippi River, and lies about 25 miles south of Vicksburg and 37 miles north of Natchez, Mississippi.

The only incorporated city within 10 miles of GGNS is Port Gibson, Mississippi; however, the EPZ extends more than 10 miles from the site to include the towns of Newellton and St. Joseph in Louisiana and Alcorn State University in Mississippi. The Grand Gulf Military Park borders the nuclear station site boundary to the north. The small community of Grand Gulf is 1 ½ miles north of the nuclear station and Lake Bruin State Park, in Louisiana, is approximately 10 miles west of the site.

The total population of the EPZ is 15,126 persons (combined resident and transient populations), most of whom live in Port Gibson and Alcorn State University in Mississippi, and St. Joseph and Newellton in Louisiana. With the exception of schools and churches, there are few other special facilities. There is one hospital, two nursing homes, and three incarceration facilities.

The most prominent natural feature in the EPZ is the Mississippi River, which runs from the north to southwest and defines the border between Louisiana and Mississippi. The major roadways in the Louisiana portion of the EPZ include U.S. Highway 65 and LA Highways 128 and 605. In Mississippi, the major roadways are U.S. Highway 61, MS Highways 18, 547 and the Natchez Trace Parkway, which is part of the National Park Service.

The GGNS EPZ is divided into 16 Protective Action Areas (PAAs) defined by geographical boundaries for the purpose of emergency response planning and the implementation of protective actions. The only PAAs in Louisiana are numbered 8 through 12 on the EPZ map.

Introduction

## **B. Emergency Response Organizations**

### **Mississippi**

Under the Governor's direction, the total and combined efforts of state and local governments are utilized to mitigate the effects of offsite radiological hazards resulting from an emergency at GGNS. Existing government departments and agencies comprise the basic structure and will respond commensurate with the level of the incident. Mississippi state radiation emergency response organization parallels that for any disaster within the state using Emergency Support Functions (ESFs) as outlined in the National Response Framework (NRF).

The primary responsibility for directing and conducting emergency response in the event of an incident at the Grand Gulf Nuclear Station rests jointly with the State and local governments. The Governor of the State of Mississippi has overall responsibility for emergency preparedness and response concerning an incident at the Grand Gulf Nuclear Station. The Mississippi Emergency Management Agency (MEMA) is the focal point within the State government for emergency planning, preparedness, mitigation, response, and recovery. The Governor has charged the MEMA Director with the responsibility of coordinating the activities of all departments, agencies, and organizations of state government and local emergency management agencies to carry out emergency functions relating to a NPP incident. MEMA directs the staff activities of the State Emergency Operation Center (SEOC).

The Mississippi State Department of Health and Division of Radiological Health (MSDH/DRH) analyzes the offsite impact or potential impact of an incident at the Grand Gulf Nuclear Station and advises state and local officials on implementation of protective actions based on accident assessment.

### **Louisiana**

The Governor of Louisiana and the Governor's Office of Homeland Security and Emergency Preparedness (GOHSEP) and the Louisiana Department of Environmental Quality (LDEQ) share the responsibility for State response and preparedness to fixed nuclear facilities. It is the responsibility of the Governor of Louisiana and GOHSEP to coordinate and deliver all emergency services at the State level. Technical assessment and technical response capabilities are provided and coordinated by LDEQ.

The State is responsible for providing protective actions recommendations (PARs) to the parishes. Parish governments are responsible for implementing protective actions decisions (PADs) based on State recommendations.

## **C. Plans**

### **Mississippi**

The State of Mississippi has both a Mississippi Emergency Operations Plan (MEOP) and a Mississippi Radiological Emergency Preparedness Plan (MREPP). Both the MEOP and MREPP utilize the National Incident Management System (NIMS) format. The Mississippi EOP addresses an array of hazards; the Mississippi REPP addresses, in detail, the State's response specific to an incident at a nuclear power plant. Claiborne, Adams, Copiah, Hinds, and Warren Counties have emergency response plans for the Grand Gulf Nuclear Station.

The analysis of offsite emergency preparedness for the State of Mississippi and Claiborne County in response to possible incidents at the Grand Gulf Nuclear Station has been based on:

- Review of the Mississippi Emergency Operations Plan, dated September 1998;
- Review of the Mississippi Radiological Emergency Preparedness Plan, January 2007;
- Port Gibson/Claiborne County Radiological Emergency Preparedness, December 2005

### **Louisiana**

The Louisiana Peacetime Radiological Response Plan (LPRRP) consists of the Basic Plan, three attachments and a manual of LDEQ/Radiological Emergency Planning & Response Operating Procedures and is maintained under separate cover by LDEQ. The LPRRP assigns responsibilities to State agencies and describes the method for conducting a coordinated response to radiological emergencies.

The LPRRP Supplement 2: Fixed Nuclear Facilities contains three attachments: Attachment 1, Waterford-3 Steam Electric Station; Attachment 2, Grand Gulf Nuclear Station and Attachment 3, River Bend Station. Within each attachment are enclosures for each parish located in the EPZ.

The LDEQ Procedures Manual consists of operating procedures that provide guidance and instructions for implementing the LPRRP.

(Criteria applicable only to utilities are not listed)

### **Offsite Plan Reviews Include:**

- Louisiana Department of Environmental Quality, Louisiana Peacetime Radiological Response Plan (LPRRP), Basic Plan, Revision 10 (January 2009)
- Supplement 2: Fixed Nuclear Facilities to Louisiana Emergency Operations Plan, Attachment 2, Grand Gulf Nuclear Station, General Plan (January 2009)
- Tensas Parish Radiological Emergency Response Plan, Enclosure I to Attachment 2 (January 2009)

- Louisiana Department of Environmental Quality Radiological Emergency Response Operating Procedures:
  - Radiological Emergency Response Operating Procedure 1 (OP-1), LDEQ Secretary (or Designee), August 15, 2007
  - Radiological Emergency Response Operating Procedure 2 (OP-2), Notification and Headquarters Activation, January 25, 2007
  - Radiological Emergency Response Operating Procedure 3 (OP\_3) Staff Duty Officer, August 3, 2007
  - Radiological Emergency Response Operating Procedure 5 (OP-5), Field Monitoring Team, August 14, 2007
  - Radiological Emergency Response Operating Procedure 6 (OP-6), Technical Logistics Coordinator, August 14, 2007
  - Radiological Emergency Response Operating Procedure 7 (OP-7), Field Monitoring Team Coordinator, August 1, 2007
  - Radiological Emergency Response Operating Procedure 8 (OP-8), Dose Assessment Coordinator, August 2, 2007
  - Radiological Emergency Response Operating Procedure 9 (OP-9), Accident Assessment Coordinator, August 21, 2007
  - Radiological Emergency Response Operating Procedure 10 (OP-10), Senior EOF Liaison, August 21, 2007
  - Radiological Emergency Response Operating Procedure 11 (OP-11), Logistics Coordinator, August 13, 2007
  - Radiological Emergency Response Operating Procedure 12 (OP-12), Technical Spokesperson at the Joint Information Center, August 13, 2007
  - Radiological Emergency Response Operating Procedure 13 (OP-13), Technical Representative at the Parish EOC, August 23, 2007
  - Radiological Emergency Response Operating Procedure 15 (OP-15), Sample Courier, August 23, 2007
  - Radiological Emergency Response Operating Procedure 16 (OP-16), Laboratory Sample Processing, August 23, 2007

## **D Basis for Findings**

Interim Findings in this report are based on the following guidance:

1. 44 CFR 353
2. Published FEMA REP Guidance Documents
3. NUREG 0654/FEMA REP-1, Rev.1

## E. Evaluation Format

In accordance with the FEMA/NRC Memorandum of Understanding, dated June 17, 1993, FEMA has agreed, as an extension of its regulations at 44 CFR 350, to furnish assessments, findings and determinations as to whether State, Tribal and local emergency plans and preparedness are adequate and capable of implementation (e.g., adequacy and maintenance of procedures, training, and resources, staffing levels, qualification and equipment adequacy) for those current nuclear reactor sites proposing to add one or more nuclear reactors to the site. Guidance for review and development of radiological emergency response plans is contained in the document NUREG 0654/FEMA-REP-1, Rev. 1, "Criteria for Preparation and Evaluation of Radiological Emergency Response Plans and Preparedness in Support of Nuclear Power Plants," amended March 2002, and current FEMA guidance documents.

NUREG-0654/FEMA REP-1, Rev 1 Criteria for Preparation and Evaluation of Radiological Emergency Response Plans and Preparedness in Support of Nuclear Power Plants November 1980 is the guidance used to review and develop this Interim Finding Report.

Each planning standard criterion that applies to state and local emergency response organizations will be addressed and include:

An assessment of the reviewed plans and procedures, noting one of the following with respect to the planning standard criterion:

**Adequate:** Plans are adequate and there is reasonable assurance that they can be implemented with only limited or no corrections needed.

**Adequate - Corrections Must Be Made:** Plans are adequate; but before a determination can be made as to whether they can be implemented, corrections must be made to the plans or supporting measures must be demonstrated.

**Inadequate:** Plans are inadequate and cannot be implemented until they are revised to correct deficiencies noted in the Federal Review.

**N/A** – The planning criterion is not applicable to this Offsite Response Organization (ORO)



## **II. REVIEW AND EVALUATION OF EMERGENCY PREPAREDNESS PLANS FOR THE GRAND GULF NUCLEAR STATION AGAINST THE PLANNING STANDARDS OF NUREG-0654 FEMA-REP-1, REV. 1**

- A. Assignment of Responsibility (Organization Control) Planning Standard:** Primary responsibilities for emergency response by the nuclear facility licensee, and by State and local organizations within the Emergency Planning Zone have been assigned, the emergency responsibilities of the various supporting organizations have been specifically established, and each principal response organization has staff to respond and to augment its initial response on a continuous basis.

### **MISSISSIPPI**

#### **A. Evaluation: Adequate**

##### **A. Statement**

The Mississippi Radiological Emergency Preparedness Plan (MREPP), Volume III of the Mississippi Comprehensive Emergency Management Plan vests the authority to protect the health and safety of the public with the Governor. The Governor has made the Mississippi Emergency Management Agency (MEMA) Director; his/her authorized representative and tasked the position with the responsibility to coordinate the emergency response. The responsibilities of State agencies involved in an emergency response to an incident at the Grand Gulf Nuclear Station (GGNS) are outlined in Section IV of the MREPP.

The Claiborne County Board of Supervisors and the City of Port Gibson Mayor and Alderman are responsible for the local governments' response to an incident at the GGNS. They have assigned the Director, Port Gibson/Claiborne County Civil Defense (PGCCD) Agency, the responsibility to direct the County's response to an event at GGNS and to implement the protective action decisions coordinated with MEMA. Other County and City Agency responsibilities are listed in Section IV of their plan.

Under the Governor's direction, the combined efforts of state and local governments are used to respond to an event at GGNS. MREPP, Annex A, Appendix 1, contains the State Command and Control Coordination chart, which graphically depicts the states command structure. The Claiborne County Functional Matrix located in the Basic Plan Appendix 3, shows the primary and support roles of responding organizations. Both emergency response organizations will be staffed as required by the situation.

The MEMA Director manages the SEOC and is the liaison with local, state and federal agencies. If Federal assistance is needed, the Governor or the MEMA Director can request assistance through FEMA Region IV.

MEMA maintains the State's 24-hour Warning Point. Upon notification of an event from GGNS, MEMA will notify the Mississippi State MSDH/DRH and pass on all available information. The Claiborne County Sheriff's Office Serves as the 24-hour County Warning Point and Alerts the PG/CCCD Duty Officer of emergency classifications received after hours over the GGNS Operational Hot Line (OHL). The Port Gibson Police Department maintains the alternate 24-hour County Warning Point.

MREPP is supported through the following state laws and codes: Mississippi Emergency Management Law of 1980, Section 33-15, Mississippi Code 1972, Annotated; Radiation Protection Law of 1976, Section 45-14, Mississippi Code 1972, Annotated; and Executive Order 653, November 16, 1990. Claiborne County and the City of Port Gibson emergency response plan is supported and authorized by the following resolution: Port Gibson/Claiborne County Joint Ordinance/Resolution, April 3, 1978. Letters of Agreement are listed in the Annex M of both the MRERP and the PGCCREPP and were reviewed.

## **LOUISIANA**

- A. Assignment of Responsibility (Organizational Control):  
Primary responsibilities for emergency response by the nuclear facility licensee and by State and local organizations within the Emergency Planning Zones have been assigned, the emergency responsibilities of the various supporting organizations have been specifically established, and each principal response organization has staff to respond and to augment its initial response on a continuous basis.
- A.1.a Evaluation Criterion: Each plan shall identify the State, local, Federal, and private sector organizations (including utilities), that are intended to be part of the overall response organization for Emergency Planning Zones.

### **Criterion Statement**

State of Louisiana: Section VI, B.5.a states that LDEQ serves as the lead State agency for the development and implementation of the LPRRP, and coordinates the development of detailed implementing procedures necessary to support the State Plan. LDEQ Radiological Emergency Planning & Response (REP&R) Radiological Emergency Response Operating Procedures 1-17 are not specifically referenced in the LPRRP crosswalk or throughout the plan. The plan should be updated and/or corrected as necessary.

Tensas Parish: Organizations within the EPZ are identified.

### **Plan Reference**

State of Louisiana: LPRRP, Basic Plan, Sections IV, VI, and VII; Attachments 1, 2, and 3

Tensas Parish: LPRRP, Attachment 2, Enclosure I, Section D

### **Evaluation**

State of Louisiana: **Adequate**

Tensas Parish: **Adequate**

- A.1.b Each organization and sub-organization having an operational role shall specify its concept of operations and its relationship to the total effort.

### **Criterion Statement**

State of Louisiana: The LPRRP, January 2009 is adequate to meet the intent of criterion A.1.b

Tensas Parish: This criterion is adequate. The plan specifies the concept of operations of each emergency response position and their respective duties.

### **Plan Reference**

State of Louisiana: Basic Plan, Section IV, VI; Attachments 1, 2, and 3

Tensas Parish: Attachment 2, Enclosure I, Section C, D and E

### **Criterion Evaluation**

State of Louisiana: **Adequate**

Tensas Parish: **Adequate**

- A.1.c. Each plan shall illustrate these interrelationships in a block diagram.

### **Criterion Statement**

State of Louisiana: The LPRRP, January 2009 is adequate. The flow chart referenced in the plan contains direct and coordinating relationships of the State, local, federal governments and military support.

Tensas Parish: This criterion is adequate. The parish organizational structure is provided as a flowchart that lists the Executive Branch as the lead with five support branches: Operations, Disaster Analysis, Communications, Support and Resource Groups.

#### **Plan Reference**

State of Louisiana: LPRRP Basic Plan, Figure 1

Tensas Parish: LPRRP, Attachment 2, Enclosure I, Figure D-1

#### **Criterion Evaluation**

State of Louisiana: **Adequate**

Tensas Parish: **Adequate**

#### **Corrections**

State of Louisiana: The table of contents needs to be corrected to reflect the correct page number for Section V, Figure 1 (page 18)

- A.1.d Each organization shall identify a specific individual by title who shall be in charge of the emergency response.

#### **Criterion Statement**

State of Louisiana: The LPRRP , January 2009 is adequate to meet the intent of criterion A.1.d. The plan contains specific individuals by titles which are in charge of the emergency response.

Tensas Parish: This criterion is adequate. The plan, Section C, states that in the absence of the Police Jury President, responsibility will be delegated according to parish procedures for continuity of parish government.

#### **Plan Reference**

State of Louisiana: Basic Plan, Section V; Attachments 1, 2, and 3

Tensas Parish: LPRRP, Attachment 2, Enclosure I, Section C and D

#### **Criterion Evaluation**

State of Louisiana: **Adequate**

Tensas Parish: **Adequate**

- A.1.e Each organization shall provide for 24-hour per day emergency response, including 24-hour per day manning of communications links.

**Criterion Statement**

State of Louisiana: This criterion is adequate. Section III, Concept of Operations clearly states the means of communication is via the direct dedicated line or other acceptable means of communications from the nuclear facility to LHLS/EP, LDEQ and risk parishes within the EPZ. Twenty-four hour coverage of the direct dedicated telephone circuit will be provided by LHLS/EP, which maintains continuous operation.

Tensas Parish: This criterion is adequate. The parish has multiple methods of communications, the primary and secondary are the GGNS Hotline and the Civil Defense Radio System which are monitored 24-hours per day by the Tensas Parish Sheriff's Office. Other means of communications used within the local area include fixed, mobile and handheld radios for the first responders; fixed/mobile radios and commercial telephones for the medical facilities; a paging system for contacting key emergency personnel; and the Alert Notification System to alert the public.

**Plan Reference**

State of Louisiana: LPRRP, Chapter 3, Section III.A.4; Attachments 1, 2, and 3

Tensas Parish: LPRRP, Attachment 2, Enclosure I, Section E, F.1, and F.2

**Criterion Evaluation**

State of Louisiana: **Adequate**

Tensas Parish: **Adequate**

- A.2.a Each organization shall specify the functions and responsibilities for major elements and key individuals by emergency response title, including the following: Command and Control, Alerting and Notification, Communications, Public Information, Accident Assessment, Public Health and Sanitation, Social Services, Fire and Rescue, Traffic Control, Emergency Medical Services, Law Enforcement, Transportation, Protective Response (including authority to request Federal assistance and to initiate other protective actions), and Radiological Exposure Control. The description of these functions shall include a clear and concise summary such as a table of primary and support responsibilities using the agency as one axis, and the function as the other.

### **Criterion Statement**

State of Louisiana: This criterion is adequate. The LPRRP , January 2009 is adequate to support criterion A.2.a, but corrections must be made. The plan does contain a section that covers the functions and responsibilities for major elements and key individuals; it does not reflect current information.

Tensas Parish: This criterion is adequate. Organizations with emergency responsibilities are listed and their responsibilities are clearly defined in Section D. Figure D-2 is the Emergency Function and Responsibility Chart.

### **Plan Reference**

State of Louisiana: LPRRP, Basic Plan, Section VI, Figure 2; Attachments 1, 2, and 3

Tensas Parish: LPRRP, Attachment 2, Appendix A, Tab A, Enclosure 1, Section D and Figure D-2

### **Criterion Evaluation**

State of Louisiana: **Adequate**

Tensas Parish: **Adequate**

- A.2.b. Each plan shall contain (by reference to specific acts, codes, or statutes) the legal basis for such authorities.

### **Criterion Statement**

State of Louisiana: This criterion is adequate. Federal and State references are well documented. For the local section the following general statement is noted, "Ordinances or resolutions enacted pursuant to requirements or authorities cited in the Plan." Upon review of Attachments 1-3, a Civil Defense ordinance is referenced for each parish plan.

Tensas Parish: This criterion is adequate. The Tensas Parish Police Jury Ordinances are referenced as the authority for development and implementation for Emergency Preparedness.

### **Plan Reference**

State of Louisiana: LPRRP, Section 1.B

Tensas Parish: LPRRP, Attachment 2, Section I.A, Enclosure I, Section B

### **Criterion Evaluation**

State of Louisiana: **Adequate**

Tensas Parish: **Adequate**

- A.3 Each plan shall include written agreements referring to the concept of operations developed between Federal, State, and local agencies and other support organizations having an emergency response role within the Emergency Planning Zones. The agreements shall identify the emergency measures to be provided and the mutually acceptable criteria for their implementation, and specify the arrangements for exchange of information. These agreements may be provided in an appendix to the plan or the plan itself may contain descriptions of these matters and a signature page in the plan may serve to verify the agreements. The signature page format is appropriate for organizations where response functions are covered by laws, regulations or executive orders where separate written agreements are not necessary.

### **Criterion Statement**

State of Louisiana: This criterion is adequate. Signature page is appropriate (last updated: October 2005).

Tensas Parish: This criterion is adequate. Enclosure I, Tensas Parish Radiological Emergency Plan does not include a signature page. The signature page for the Police Jury President, Tensas Parish Homeland Security and Emergency Preparedness (HLS/EP) Coordinator, Town of St. Joseph Mayor and Town of Newellton Mayor are in Attachment 2, Grand Gulf Nuclear Station Plan, Page iii, although it does not have signatures.

### **Plan Reference**

State of Louisiana: LPRRP, Chapter 14; Attachments 1, 2, and 3

Tensas Parish: LPRRP, Attachment 2, Enclosure I, Section B and Appendix I-1

### **Criterion Evaluation**

State of Louisiana: **Adequate**

Tensas Parish: **Adequate**

### **Recommendation**

State of Louisiana: Add Page iv (signature page) to crosswalk.

Tensas Parish: Provide signed signature page for Attachment 2 and make a reference in Enclosure I and the crosswalk.

- A.4 Each principal organization shall be capable of continuous (24-hour) operations for a protracted period. The individual in the principal organization who will be responsible for assuring continuity of resources (technical, administrative, and material) shall be specified by title.

#### **Criterion Statement**

State of Louisiana: This criterion is adequate. The plan clearly states that the LDEQ Secretary or Official Designee are authorized to direct development/implementation of emergency response plans and they are responsible for assuring continuity of resources to support a protracted, continuous operation. The Departments of State Government's common responsibilities include: (1) Designating a primary and alternate individual who will be in charge of emergency response for their department; (2) Establishing an emergency organization with key department personnel and adequate personnel assignments as required to sustain continuous operations for a protracted period.

Tensas Parish: This criterion is adequate. The Police Jury President is responsible for emergency operations required to protect the population of Tensas Parish, in his absence the responsibility will be delegated according to Parish Procedures for Continuity of Parish Government. Responsibilities for the local organizations, local & municipal governments (including the Police Jury President), parish-level State support agencies and the American Red Cross are established, assuring continuity of resources to support emergency operations for a protracted period.

#### **Plan Reference**

State of Louisiana: LPRRP, Section V.B; Section VI.A.3 and 4

Tensas Parish: LPRRP, Attachment 2, Enclosure 1, Section D

#### **Criterion Evaluation**

State of Louisiana: **Adequate**

Tensas Parish: **Adequate**

- B. **Onsite Emergency Organization:** On-shift facility licensee responsibilities for emergency response are unambiguously defined, adequate staffing to provide initial facility accident response in key functional areas is maintained at all times, timely augmentation of response capabilities is available, and the interfaces among various onsite response activities and offsite support and response activities are specified.



## MISSISSIPPI

### B. Evaluation: N/A

## LOUISIANA

### B. Onsite Emergency Organization

On-shift facility licensee responsibilities for emergency response are unambiguously defined; adequate staffing to provide initial facility accident response in key functional areas is maintained at all times; timely augmentation of response capabilities is available; and the interfaces among various onsite response activities and offsite support and response activities are specified.

**This planning standard applies only to onsite response organizations therefore; evaluation of this standard is not included in this report.**

- C. **Emergency Response Support and Resources Planning Standard:** Arrangements for requesting and effectively using assistance resources have been made, arrangements to accommodate State and local staff at the Licensee's near-site Emergency Operations Facility have been made, and other organizations capable of augmenting the planned response have been identified.

## MISSISSIPPI

### C. Evaluation: Adequate

#### C. Statement

The MEMA Director serves as the Governor's authorized representative and acts as liaison with State, local and Federal agencies. The Governor, the MEMA Director, or the Mississippi Department of Health, Division of Radiological Health (MSDH/DRH) will request Federal assistance if needed.

The MREPP and the PGCCREPP list the types of Federal resources expected both technical and non-technical. They provide expected arrival times for those resources and what State and/or local resources are available to support the Federal response.

The Radiological Emergency Response Team Coordinator (RERTC) operates from the EOF.

The MREPP describes the MSDH/DRH radiological laboratory and that if they become overwhelmed they will seek assistance from the EPA laboratories in Alabama and Nevada. The MREPP also mentioned the support Mississippi from other states through the Southern Mutual Radiological Assistance Plan (SMRAP).

## LOUISIANA

### C. Emergency Response Support and Resources

Arrangements for requesting and effectively using assistance resources have been made, arrangements to accommodate State and local staff at the licensee's near-site Emergency Operations Facility have been made, and other organizations capable of augmenting the planned response have been identified.

C.1.a Specific persons by title authorized to request Federal assistance; see A.1.d, A.2.a.

#### **Criterion Statement**

State of Louisiana: This criterion is adequate. The plan clearly states that the LDEQ Secretary or Official Designee are authorized to direct development/implementation of emergency response plans and request technical assistance for fixed nuclear facility accident from NRC, DOE, EPA or other Federal agencies. In the event the LDEQ Secretary is not available, an official Designee, appointed by the Secretary, is authorized to request such Federal assistance.

Tensas Parish: Not Applicable

#### **Plan Reference**

State of Louisiana: LPRRP, Basic Plan, Section V.B

Tensas Parish: Not Applicable

#### **Criterion Evaluation**

State of Louisiana: **Adequate**

Tensas Parish: Not applicable

C.1.b Specific Federal resources expected including expected times of arrival at specific nuclear facility sites.

#### **Statement**

State of Louisiana: The LPRRP , January 2009 is adequate. The State plan says that FEMA is the lead Federal agency for the coordination of non-technical Federal support to State/local agencies. This is primarily logistical support and may include telecommunications, transportation, housing and other categories of non-technical nature.

The NRC is the lead Federal agency for coordination of technical Federal support, primarily through DOE. The Federal government maintains in-depth capabilities (technical and non-technical) to assist State/local governments through the NRP, Nuclear/Radiological Incident Annex. The plan makes references to the federal agencies that will be requested during an emergency and identifies estimated times for their arrival.

Tensas Parish: Not applicable

### **Plan Reference**

State of Louisiana: LPRRP, Basic Plan, Section VII.A

Tensas Parish: Not applicable

### **Evaluation**

State of Louisiana: **Adequate**

Tensas Parish: Not applicable

- C.1.c Specific licensee, State, and local resources available to support the Federal response, e.g., airfields, command posts, telephone lines, radio frequencies, and telecommunications centers.

### **Criterion Statement**

State of Louisiana: This criterion is adequate. FEMA and the NRC are the lead Federal agencies for the coordination of non-technical and technical Federal support to State/local agencies. LDEQ and LHLS/EP are responsible for coordinating the State's technical and all phases of disaster operations including the emergency response of State agencies, FEMA and other States when appropriate. Figure 1 to Section V shows the direct and coordinating relationships of the Federal, State and local governments for radiological emergencies. Additional support includes the Louisiana State University who may provide laboratory and sample analysis support during accident assessment operations. For post-accident analysis, additional support can be provided through those States who are part of the Southern Mutual Radiation Assistance Plan (SMRAP).

Tensas Parish: This criterion is adequate. The plan states that if parish resources are exhausted or unavailable, then the state will be called upon to provide resources.

### **Plan Reference**

State of Louisiana: LPRRP Basic Plan, Sections VII; Attachments 1, 2, and 3

Tensas Parish: State Basic Plan, Section VII.A.4

### **Criterion Evaluation**

State of Louisiana: **Adequate**

Tensas Parish: **Adequate**

- C.2.a Each principal offsite organization may dispatch representatives to the licensee's near-site Emergency Operations Facility. (State technical analysis representatives at the near-site EOF are preferred.)

### **Criterion Statement**

State of Louisiana: This criterion is adequate. Upon notification of a radiological accident/event, LDEQ will activate its operational headquarters based on the emergency class determined by the licensee and/or other assessment. At an Alert or higher emergency classification, LDEQ will deploy an emergency response liaison team to the utility's EOF; a Technical Spokesperson to the utility JIC; Field Monitoring Teams (FMTs) to pre-designated staging areas, and the LDEQ Secretary or designee and technical liaison officer to the State EOC. The LDEQ liaison team at the EOF will conduct accident assessment using FMT data and facility information. The LDEQ technical assessment team in coordination with the utility's Senior Representative will develop PARs based on accident assessment.

Tensas Parish: Not applicable

### **Plan Reference**

State of Louisiana: LPRRP Basic Plan, Sections IV

Tensas Parish: Not applicable

### **Criterion Evaluation**

State of Louisiana: **Adequate**

Tensas Parish: Not applicable

- C.3 Each organization shall identify radiological laboratories, their general capabilities, and expected availability to provide radiological monitoring and analyses services which can be used in an emergency.

**Criterion Statement**

State of Louisiana: This criterion is adequate. Louisiana State has fixed laboratory facility support, the LDEQ Environmental Radiation Laboratory is the primary facility and the Louisiana State University/Department of Physics/Nuclear Science Laboratory may provide secondary laboratory and sample analysis support during accident assessment operations and for post-accident analysis. At the Alert level the LDEQ Lab and data processing capabilities are brought to a state of readiness. The lab is capable of analyzing samples for a protracted time period including off hours operations, if necessary, during the event. Tab 3, Table 1-Sampling and Monitoring Equipment, lists instrumentation and equipment available to the LDEQ office and for the lab including equipment capabilities. Tab 4, LDEQ Fixed Nuclear Facility Monitoring Program contains the environmental surveillance (water, milk and vegetation and crops) within each facility's EPZ and monitoring program details. The Nuclear Power Plant Emergency Response Personnel Organizational Chart shows the technical organizational structure from the local (parish EOC) level to the State (State EOC).

Tensas Parish: Not Applicable

**Plan Reference**

State of Louisiana: LPRRP Basic Plan, Sections VII.B, Chapter 6, Tab 3

Tensas Parish: Not Applicable

**Criterion Evaluation**

State of Louisiana: **Adequate**

Tensas Parish: Not applicable

- C.4 Each organization shall identify nuclear and other facilities, organizations or individuals that can be relied upon in an emergency to provide assistance. Such assistance shall be identified and supported by appropriate letters of agreement.

**Criterion Statement**

State of Louisiana: This criterion is adequate. The State plan contains a list of ten (10) State, local, private and support agency letters of agreement (LOA) in Chapter 14, Tab 1. The LOAs are developed to identify (1) provision of resource support, (2) resources or emergency measures to be provided, (3) criteria governing the provision of support, (4)

the organization/department's concept of operations, and (5) specific arrangements/information necessary for coordinating requests for support.

Tensas Parish: This criterion is adequate. The parish plan contains a list of letters of agreement for non-government support agencies specializing in communications, medicine, education, transportation, non-profit organizations and cities/towns outside the EPZ. The plan references the utility and LDEQ as the primary support entities. Other State and Federal agencies are identified throughout the plan for additional support/resources during an emergency.

#### **Plan Reference**

State of Louisiana: LPRRP Basic Plan, Section VII, Chapter 14

Tensas Parish: LPRRP Attachment 2, Enclosure I, Section D and Appendix I-1

#### **Criterion Evaluation**

State of Louisiana: **Adequate**

Tensas Parish: **Adequate**

- C. **Emergency Classification System Planning Standard:** A standard emergency classification and action level scheme, the bases of which include facility system and effluent parameters, is in use by the nuclear facility licensee, and State and local response plans call for reliance on information provided by the facility licensees for determinations of minimum initial offsite response measures.

### **MISSISSIPPI**

**D. Evaluation: Adequate**

#### **D. Statement:**

The MREPP and PGCCREPP adopt the Emergency Classification Levels (ECL) used by the licensee. They also provide actions to activate the emergency response organizations based on ECL levels.

### **LOUISIANA**

#### **D. Emergency Classification System**

A standard emergency classification and action level scheme, the bases of which include facility system and effluent parameters, is in use by the nuclear facility licensee, and State

and local response plans call for reliance on information provided by the facility licensees for determinations of minimum initial offsite response measures.

- D.3. Evaluation Criterion: Each State and local organization shall establish an emergency classification and emergency action level scheme consistent with that established by the facility Licensee.

**Criterion Statement**

State of Louisiana: This criterion is adequate. The plan establishes emergency classification and action level guidelines required by the licensee, State and/or local officials. A table clearly identifies each level of classification with guidelines.

Tensas Parish: This criterion is adequate. The plan includes an emergency classification scheme consistent with the facility's guidelines. It also includes detailed instructions on immediate actions required by the parish decision makers for the emergency classification levels of a NOUE, Alert, SAE and GE.

**Plan Reference**

State of Louisiana: LPRRP, Chapter 1; Attachments 1, 2, and 3

Tensas Parish: LPRRP, Attachment 2, Section IV, Chapter 1; Enclosure I, Section E and Appendix I-2

**Criterion Evaluation**

State of Louisiana: **Adequate**

Tensas Parish: **Adequate**

- D.4. Evaluation Criterion: Each State and local organization should have procedures in place that provide for emergency actions to be taken that are consistent with the emergency actions recommended by the nuclear facility licensee, taking into account local offsite conditions that exist at the time of the emergency.

**Criterion Statement**

State of Louisiana: This criterion is adequate. LDEQ is responsible for coordinating with the utility when making protective action recommendations for both EPZ and IPZ pathways during an accident and recovery operations. The Plan includes general overall procedures, reference to the EPA PAGs, FDA guidance and detailed implementing procedures which address this coordination.

Tensas Parish: This criterion is adequate. The utility's control room is tasked with notifying the parish warning points of emergency classification(s).

The parish plan contains general guidelines in Section E and detailed emergency implementing procedures are documented for each key emergency function and/or support agency in Appendix I-2.

### **Plan Reference**

State of Louisiana: LPRRP Chapter 7, Section III and IV.A; Attachments 1, 2, and 3

Tensas Parish: LPRRP Attachment 2, Enclosure I, Section E and Appendix I-2

### **Criterion Evaluation**

State of Louisiana: **Adequate**

Tensas Parish: **Adequate**

- D. **Notification Methods and Procedures Planning Standard:** Procedures have been established for notification, by the licensee of State and local response organizations and for notification of emergency personnel by all response organizations; the content of initial and follow-up messages to response organizations and the public has been established; and means to provide early notification and clear instruction to the populace within the plume exposure pathway Emergency Planning Zone have been established.

## **MISSISSIPPI**

**E. Evaluation: Adequate**

### **E. Statement**

MEMA has established procedures which describe mutually agreeable bases for notification of response organizations within Annex B, Communications and provides the procedures for alerting, notifying and mobilizing emergency response personnel in Annex C, Alert and Notification. The City of Port Gibson and Claiborne County have also developed procedures for alerting, notifying and mobilizing its response organization in Annex B and C of its plan.

MEMA and PG/CCCD have developed procedures to alert and notify the public within the plume exposure emergency planning zone. This system consists of 30 fixed sirens and tone alert radios in various business and organizations in the City of Port Gibson and in Claiborne County. Once a decision is made that requires public alert and notification PG/CCCD is responsible for activating the sirens and the tone alert radios. MEMA develops the EAS message and releases the message for broadcast within the Port Gibson, Claiborne County area.



## **LOUISIANA**

### **E. Notification Methods and Procedures**

Procedures have been established for notification by the licensee of State and local response organizations and for notification of emergency personnel by all response organizations; the content of initial and follow up messages to response organizations and the public has been established; and means to provide early notification and clear instruction to the populace within the plume exposure pathway Emergency Planning Zone have been established.

- E.1 Each organization shall establish procedures that describe mutually agreeable bases for notification of response organizations consistent with the emergency classification and action level scheme set forth in Appendix 1. These procedures shall include means for verification of messages. The specific details of verification need not be included in the plan.

### **Criterion Statement**

State of Louisiana: This criterion is adequate. The licensee will provide initial and subsequent notifications to LDEQ, GOHSEP and risk parishes immediately upon recognition that an event has occurred or when significant changes occur in plant conditions. Notifications made by the utility contain detailed information as required in the "Notification Message Form" which are disseminated via phone and confirmed via fax with each recipient. In turn LDEQ and GOHSEP will notify NRC or DOE, FEMA, other supporting State and Federal agencies as well as adjacent States and parishes. The State implementing procedures have details of the specific protocol and requirements and the message verification process for notifications.

Tensas Parish: This criterion is adequate. The licensee will provide initial and subsequent notifications to the State(s) and risk parishes immediately upon recognition that an event has occurred or when significant changes occur in plant conditions. The Accident Notification and Coordination flow chart, Tab A, shows the notification responsibilities for the State and local entities. Notifications made by the licensee contain detailed information as required in the "Notification Message Form" which are disseminated via phone and confirmed with each recipient. The implementing procedures have details of the specific protocol and requirements and the message verification process for notifications.

### **Plan Reference**

State of Louisiana: LPRRP Chapter 2

Tensas Parish: LPRRP Attachment 2, Tab A and B; Enclosure I, Section E and Appendix I-2

### **Criterion Evaluation**

State of Louisiana: **Adequate**

Tensas Parish: **Adequate**

- E.2 Each organization shall establish procedures for alerting, notifying, and mobilizing emergency response personnel.

### **Criterion Statement**

State of Louisiana: This criterion is adequate. The LPRRP provides a reference to implementing procedures which contain details on headquarters activation and notification.

Tensas Parish: This criterion is adequate. Upon declaration of an emergency at the GGNS, the Control Room will notify the parish warning point, which is located at the Sheriff's Office, who will provide for 24-hour per day coverage of the communications equipment. The primary means of communication is the GGNS Hotline, second is the commercial telephone and third is the GGNS Radio link. At the local level, key emergency personnel, emergency response organizations and support organizations can be contacted via the paging system. The "Notification and Alert" section contains detailed procedures for alerting, notifying and mobilizing emergency response personnel.

### **Plan Reference**

State of Louisiana: LPRRP Basic Plan, Section VI, A.5; Attachments and

Tensas Parish: LPRRP, Attachment 2, Enclosure 1, Sections E, F.6 and Appendix 1-2

### **Criterion Evaluation**

State of Louisiana: **Adequate**

Tensas Parish: **Adequate**

- E.5 State and local government organizations shall establish a system for disseminating to the public appropriate information contained in initial and follow up messages received from the licensee, including the appropriate notification to appropriate broadcast media, e.g., the Emergency Broadcast System (EBS).

### **Criterion Statement**

State of Louisiana: This criterion is adequate. The State plan addresses the established system for disseminating information to the public. The public alert/notification system

is a combination of parish, State and utility alert systems sirens, monitors, mobile loudspeakers and alert radio stations. LDEQ and the utility (ies) are responsible for the pre-emergency public information programs. GOHSEP is responsible for disseminating emergency information by activating the EAS which is part of the coordinated State/parish public alert system.

GOHSEP is responsible for disseminating emergency information to the public through activation of the EAS which is part of the coordinated State/Parish public alert system.

The Governor's Press Secretary/Designee is responsible for the release of statewide emergency public information to the news media. The Press Secretary coordinates with Public Information Officers/representatives of the applicable official organizations (Federal, State, local and utility).

The referenced portions of the State plan are too broad. In order to make a determination as to whether the plans can be implemented, the LPRRP Cross Reference Index to NUREG 0654 Criterion must be updated to include the specific reference in plan attachments and implementing procedures that address criterion E.5. A RAI, described in the section below, will be provided to the applicant.

Tensas Parish: This criterion is adequate. The primary alert system for the parish is comprised of a combination of fixed sirens, tone activated radio, and the U.S. Coast Guard for notification along the Mississippi River. Back-up methods of alerting the public include route alerting, commercial telephones and tone activated radios. The Emergency Alert System in the 10-mile EPZ is used to alert the public to listen to KNOE-AM and KNOE-FM, the Emergency Alert System (EAS) radio stations. Tensas Parish will release protective action messages (pre-drafted) through the EAS radio stations.

#### **Plan Reference**

State of Louisiana: LPRRP Chapter 4, Chapter 5, Section IV.B; Attachments 1, 2, and 3

Tensas Parish: LPRRP, Attachment 2, Enclosure I, Sections C, E and F.7

#### **Criterion Evaluation**

State of Louisiana: **Adequate**

Tensas Parish: **Adequate**

- E.6 Each organization shall establish administrative and physical means, and the time required for notifying and providing prompt instruction to the public within the plume exposure pathway EPZ.

It shall be the licensee's responsibility to demonstrate that such means exist, regardless of who implements this requirement. It shall be the responsibility of the State and local governments to activate such a system.

### **Criterion Statement**

State of Louisiana: This criterion is adequate. The plan describes the administrative means and physical means and for notifying the public within the EPZ. The plan also includes the time required to provide this instruction to the public. The public alert/notification system is designed to provide both an alert signal and an informational or instructional message to the population on an area-wide basis throughout the EPZ, within 15 minutes. The initial notification system will assure direct coverage of 100% of the population within 5 miles of the site. Special arrangements will be made to assure 100% coverage of the EPZ population within 45 minutes for those that may not have received the initial notification.

Draft messages for risk areas and general area-wide messages are developed for disseminating emergency instructions and information to the public within the EPZ. Written messages for the stations are coded to ensure that the appropriate message is used at the proper time.

Tensas Parish: This criterion is adequate. There is clear guidance, step by step instructions on the actions taken to protect the public, in addition to multiple methods of notifying the public, special facilities, schools, hospitals, and major employers during an emergency are mentioned in the plans. Timing for notification to the public is stated in the LPRRP, Chapter 4.IV, notification occurs within 15 minutes via an alert signal and an information or instructional message. Additional arrangements have been made to assure 100% coverage within 45 minutes for those who may not have received the initial notification within the EPZ. The parish plan does not contain information on timing of notification to the public during an emergency.

### **Plan Reference**

State of Louisiana: LPRRP Chapter 4, Section IV; Attachments 1, 2, and 3

Tensas Parish: LPRRP, Chapter 4, Section IV; Attachment 2, Enclosure 1, Sections G and F.7

### **Criterion Evaluation**

State of Louisiana: **Adequate**

Tensas Parish: **Adequate**

- E.7 Each organization shall provide written messages intended for the public, consistent with the licensee's classification scheme. In particular, draft messages to the public giving instructions with regard to specific protective actions to be taken by occupants of affected areas shall be prepared and included as part of the State and local plans. Such messages should include the appropriate aspects of sheltering, ad hoc respiratory protection, e.g., handkerchief over mouth, thyroid blocking, or evacuation. The role of the licensee is to provide supporting information for the messages. For ad hoc respiratory protection see "Respiratory Protective Devices Manual" American Industrial Hygiene Association, 1963, pp. 123–126.

#### **Criterion Statement**

State of Louisiana: Not applicable

Tensas Parish: This criterion is adequate. EAS messages for the parish will be coordinated with Claiborne County and the State EOC. The Emergency Preparedness Coordinator is responsible for advance development of prepared messages which will provide specific emergency instructions based on the protective actions being taken. Tab A to Chapter 2 is the "EAS Message Listing" for pre-scripted messages. The plans include development of an ongoing educational program, Information Brochures, related to emergency response for the utility and in case of a radiological accident. The Information Brochure is intended to support information from the EAS.

#### **Plan Reference**

State of Louisiana: LPRRP Attachments 1, 2, and 3

Tensas Parish: LPRRP, Attachment 2, Section IV, Chapter 2, Tab A; Enclosure I, Section E.5

#### **Criterion Evaluation**

State of Louisiana: Not Applicable

Tensas Parish: **Adequate**

- F. **Emergency Communications Planning Standard:** Provisions exist for prompt communications among principal response organizations to emergency personnel and to the public.

#### **MISSISSIPPI**

**F. Evaluation: Adequate**

**F. Statement:**

As the State 24-hour Warning Point, MEMA receives initial and follow-up information from the plant concerning an emergency declaration. The Notification Message Form is completed with all available information. Upon receipt of the information, MEMA will notify MSDH/DRH and pass on all available information. MEMA also verifies that the PG/CCCD received the emergency notification. MEMA is also responsible for notifying appropriate local, state and federal governmental agencies as necessary.

The Operational Hot Line (OHL), a dedicated line between GGNS, MEMA and PG/CCCD, commercial telephone serves as the backup. MEMA also has radio and satellite telephones to use in the response to an incident at GGNS. RERT Communications will be by Satellite Network (SATNET). SATNET is a combination satellite telephone/radio system. Control and coordination of field units will be by SATNET from the EOF, or SEOC. MEMA and PG/CCCD have an ANS/EAS Line for Direct link to one another for use in making decisions.

Statewide Hospital Net provides radio communications with fixed medical facilities. SATNET and cell/landline phones are the backup. Contact information for Hospitals can also be found in the plan.

All components of the Alert and Notification System are tested on a scheduled basis. The Port Gibson/Claiborne County Civil Defense tests the siren system monthly and all results are recorded and forwarded to MEMA. The EAS is tested monthly and supplemental alert systems are tested routinely.

## **LOUISIANA**

### **F. Emergency Communications**

Provisions exist for prompt communications among principal response organizations to emergency personnel and to the public.

- F.1.a Provision for 24-hour per day notification to and activation of the State/local emergency response network; and, at a minimum, a telephone link and alternate, including 24-hour per day manning of communications links that initiate emergency response actions.

### **Criterion Statement**

State of Louisiana: The Louisiana Peacetime Radiological Response Plan (LPRRP) , January 2009 is adequate to meet the intent of Criteria F.1.a. The LPRRP clearly describes the communication systems that will be used to receive notification from the applicant when it is necessary to activate an emergency response. The plan identifies a primary communication system and two additional back-up communication systems. In addition, the LPRRP also describes the method they use to provide 24/7 communication coverage.

Tensas Parish: This criterion is adequate. The parish plans have clear emergency communications procedures. The primary means of communication is the GGNS Operational Hotline located at the Tensas parish EOC and is monitored by the Tensas Parish Sheriff's Office 24-hours per day. This is a dedicated telephone system allowing communication with the emergency response organizations in States, Mississippi and Louisiana, for the GGNS. Back-up communications is the Civil Defense Radio System, receive-transmit console is located and monitored 24-hours per day by the Tensas Parish Sheriff's Office.

#### **Plan Reference**

State of Louisiana: LPRRP Chapter 3, Section III.A; Attachments 1, 2, and 3

Tensas Parish: LPRRP, Attachment 2, Enclosure I, Section F

#### **Criterion Evaluation**

State of Louisiana: **Adequate**

Tensas Parish: **Adequate**

- F.1.b Provision for communication with contiguous State/local governments within the Emergency Planning Zones;

#### **Criterion Statement**

State of Louisiana: The Louisiana Peacetime Radiological Response Plan (LPRRP), January 2009 is adequate to meet the intent of Criterion F.1.b. The plan provides for the capability for local governments to have the capability to communicate with other local governments statewide. It also provides for the capability for State government to communicate with other adjacent States as well.

Tensas Parish: This criterion is adequate. The plan contains a detailed flow chart indicating the communication systems used and the State/local governments accessible. The systems include the GGNS Operational Hotline, Civil Defense Radio System, facsimile and tone activated radios.

#### **Plan Reference**

State of Louisiana: LPRRP Chapter 3, Section III.A and B; Attachments 1, 2, and 3

Tensas Parish: LPRRP, Attachment 2, Enclosure I, Section F.2 and Figure F-1

### **Criterion Evaluation**

State of Louisiana: **Adequate**

Tensas Parish: **Adequate**

### **Recommendation**

Tensas Parish: Correct reference to Section F.1, which contains a list of entities/locations for the GGNS Operational Hotline.

- F.1.c Provision for communications, as needed, with Federal emergency response organizations;

### **Criterion Statement**

State of Louisiana: The Louisiana Peacetime Radiological Response Plan (LPRRP), January 2009 is adequate. Federal technical and operational support will be coordinated through the State, Louisiana Department of Environmental Quality and LHLS/EP (recommendation update to reflect GOHSEP). Tab A, "Accident Notification and Coordination", is a detailed flow chart showing the roles/responsibilities for either notification and/or coordination for support. LHLS/EP will utilize NAWAS to coordinate with adjacent States; and back-up communications are via the Federal National Radio System and satellite radios for interstate communications.

Tensas Parish: This criterion is adequate. Federal technical and operational support will be coordinated through the State, Louisiana Department of Environmental Quality and LHLS/EP (recommendation update to reflect GOHSEP). Tab A, "Accident Notification and Coordination", is a detailed flow chart showing the roles/responsibilities for either notification and/or coordination for support. LHLS/EP will utilize NAWAS to coordinate with adjacent States; and back-up communications are via the Federal National Radio System and satellite radios for interstate communications.

### **Plan Reference**

State of Louisiana: LPRRP Chapter 3, Section III.E; Attachments 1, 2, and 3

Tensas Parish: Attachment 2, Section II.G, II.I and Appendix A, Tab A

### **Criterion Evaluation**

State of Louisiana: **Adequate**

Tensas Parish: **Adequate**



- F.1.d Provision for communications between the nuclear facility and the licensee's near-site Emergency Operations Facility, State and local emergency operations centers, and radiological monitoring teams;

**Criterion Statement**

State of Louisiana: The Louisiana Peacetime Radiological Response Plan (LPRRP), January 2009 is adequate-corrections must be made. Before a determination as to whether the plans can be implemented, corrections must be made to the State plan.

Tensas Parish: This criterion is adequate. The GGNS Operational Hotline is the primary means of 24-hour per day communications between the utility and the EOF, State and local emergency organizations. The following locations are equipped with a hotline:

GGNS Control Room  
GGNS Technical Support center  
GGNS Emergency Operations Facility  
Tensas Parish EOC and Sheriff's Office  
Claiborne county LDEQ Office and LDEQ Field Office  
LHLS/EP EOC  
Tensas Parish 911 center provides back-up communication

**Plan Reference**

State of Louisiana: LPRRP Chapter 3, Section III.A and III.C; Attachments 1, 2, and 3

Tensas Parish: LPRRP, Attachment 2, Enclosure I, Section F.1 and F.2

**Criterion Evaluation**

State of Louisiana: **Adequate**

Tensas Parish: **Adequate**

- F.1.e Provision for alerting or activating emergency personnel in each response organization

**Criterion Statement**

State of Louisiana: The Louisiana Peacetime Radiological Response Plan (LPRRP), January 2009 is adequate to meet the intent of Criterion F.1.e. The referenced portion of the State plan addresses the method which will be used to notify and activate personnel in each response. In addition, the plan makes a general reference to State and local implementing procedures for specific details.

Tensas Parish: This criterion is adequate. The GGNS, Control Room, will notify the Parish warning points. The Sheriff's Office dispatcher will notify the emergency preparedness coordinator and other key individuals via telephone. The paging system is used to activate support emergency personnel and emergency response organizations. Law enforcement and fire/rescue personnel are notified via their agency radio systems.

#### **Plan Reference**

State of Louisiana: LPRRP, Chapter 3, Section III.A; Attachments 1, 2, and 3

Tensas Parish: LPRRP, Attachment 2, Enclosure I, Sections E and F.2 through F.6

#### **Criterion Evaluation**

State of Louisiana: **Adequate**

Tensas Parish: **Adequate**

- F.2 Each organization shall ensure that a coordinated communication link for fixed and mobile medical support facilities exists.

#### **Criterion Statement**

State of Louisiana: The Louisiana Peacetime Radiological Response Plan (LPRRP), January 2009 is adequate. Support facilities, Riverland Hospital and American Medical Response Ambulance, are contacted via fixed/mobile radios or commercial telephone lines.

Tensas Parish: This criterion is adequate. Medical support facilities, Riverland Hospital and American Medical Response Ambulance, are contacted via fixed/mobile radios or commercial telephone lines.

#### **Plan Reference**

State of Louisiana: LPRRP Chapter 3 Section III.D; Attachments 1, 2, and 3

Tensas Parish: LPRRP, Attachment 2, Enclosure I, Section F.4 and Figure F-1

#### **Criterion Evaluation**

State of Louisiana: **Adequate**

Tensas Parish: **Adequate**

- F.3 Each organization shall conduct periodic testing of the entire emergency communications system (see Evaluation Criteria H.10. and N.2.a., and Appendix 3).

**Criterion Statement**

State of Louisiana: The Louisiana Peacetime Radiological Response Plan (LPRRP), January 2009 is adequate to meet the intent of Criterion F.3. The plan clearly indicates that communication drills will be conducted. The plan also describes in detail the types of communication drills that will be conducted and the frequency at which they will be tested.

Tensas Parish: This criterion is adequate. Monthly tests are conducted for the emergency communications and the Alert and Notification Systems.

**Plan Reference**

State of Louisiana: LPRRP Chapter IV, Section VI.B, Chapter 13, Section IV.A; Attachments 1, 2, and 3

Tensas Parish: LPRRP Chapter 13, Section IV.A; Attachment 2, Section IV, Chapter 7.B; Enclosure I, Section F.8

**Criterion Evaluation**

State of Louisiana: **Adequate**

Tensas Parish: **Adequate**

- G. Public Education and Information Planning Standard:** Information is made available to the public on a periodic basis on how they will be notified and what their initial actions should be in an emergency (e.g., listening to a local broadcast station and remaining indoors), the principal points of contact with the news media for dissemination of information during an emergency (including the physical location or locations) are established in advance, and procedures for coordinated dissemination of information to the public are established.

**MISSISSIPPI**

**G. Evaluation: Adequate**

**G. Statement**

The State of Mississippi, City of Port Gibson, Claiborne County and Entergy Operations annually provide residents within the 10-mile EPZ emergency information calendars that include information concerning: radiation, emergency classification levels, who to

contact for additional information and/or requests for assistance , what to do in case of an emergency and an EPZ map with zone descriptions. This ongoing program provides opportunities to residents to learn about what to do in the event of an emergency. They have also established a program for annual briefings for the media. Written materials currently distributed to all residents, businesses and transient locations within the 10 mile EPZ may include one or more of the following items: calendars, brochures, posters, and full page advertisement in a 2 county telephone book. Claiborne County assisted by MEMA provides opportunities to educate residents within the County.

Coordination of the public information function during radiological emergency is handled by MEMA through its Public Information Officer (PIO). MEMA will enlist the services of PIO's from other State agencies to support this function. The major responsibility of the public information staff is to work with authorities and the media to provide accurate and timely information and instructions to the public. This includes coordinating with the State as to what statements should be furnished to the media, what actions are to be taken by the involved public, what is happening, what is expected to happen and advising the public of any recommended protective actions. During a radiological emergency, public information activities are coordinated from the Emergency News Media Center (ENMC) with representatives from the affected county, state, utility and federal responding agencies.

The public inquiries system is designed to accept calls from the public and answer questions on the status of the incident. This system may be activated as early as NOUE, if public inquiries are of sufficient quantities. Otherwise it will be activated at such time that the public information officer deems necessary. State/Local/Utility Rumor Control (Public Inquiries) is consolidated in the Emergency Information Center (EIC) at the ENMC in Jackson, MS. The State PIO at the ENMC provides a resource person to answer questions from the EIC staff pertaining to the state and local. The State PIO will respond or will refer the question(s) to the appropriate State Public Inquiries staff at the SEOC for response. The correct response will then be provided to the EIC for future use.

The major responsibility of the public information staff is to work with authorities and the media to provide accurate and timely information and instructions to the public. This includes coordinating with the State as to what statements should be furnished to the media, what actions are to be taken by the involved public, what is happening, what is expected to happen and advising the public of any recommended protective actions. During a radiological emergency at GGNS, Public information activities must be coordinated from three locations, the Port Gibson/Claiborne County EOC, the State EOC in Jackson and the Joint Information Center of the affected FNF. County prepared EAS messages will be incorporated into media briefings and news releases at the Joint Information Center.

Public Information Officer (PIO) will have access to all necessary information and is responsible for the collection of this information. This individual will establish

arrangements for timely exchange of information among designated spokesperson. The PIO will establish coordinated arrangements for dealing with rumors.

## **LOUISIANA**

### **G. Public Education and Information**

Information is made available to the public on a periodic basis on how they will be notified and what their initial actions should be in an emergency (e.g., listening to a local broadcast station and remaining indoors), the principal points of contact with the news media for dissemination of information during an emergency (including the physical location or locations) are established in advance, and procedures for coordinated dissemination of information to the public are established.

#### **G.1** Each organization shall provide a coordinated periodic (at least annually) dissemination of information to the public regarding how they will be notified and what their actions should be in an emergency. This information shall include, but not necessarily be limited to:

- a. educational information on radiation;
- b. contact for additional information;
- c. protective measures, e.g., evacuation routes and relocation centers, sheltering, respiratory protection, radio protective drugs; and
- d. special needs of the handicapped.

Means for accomplishing this dissemination may include, but are not necessarily limited to: information in the telephone book; periodic information in utility bills; postings in public areas; and publications distributed on an annual basis.

### **Criterion Statement**

State of Louisiana: The Louisiana Peacetime Radiological Response Plan (LPRRP), January 2009 is Adequate to meet the intent of Criterion G.1. The State plan describes in detail the program that will be used to disseminate information to the public including information for special needs and transient populations. Then plan specifies the participation of the State, applicable utility and local government in their public information program.

Tensas Parish: This criterion is adequate. An ongoing program for public education on how they will be notified of an accident at the utility is a coordinated effort with LDEQ, LHLS/EP, EOI and Tensas Parish. An information brochure is distributed via a mailing to the residents and commercial businesses within the EPZ. The brochure contains the following information:

- Educational information on radiation;
- Points of contact for additional information;
- Emergency Planning Zones;
- Protective Action Sections; and

- Protective measures including evacuation routes, reception centers, shelters, respiratory protection, and transportation availability.
- Special needs will be identified

### **Plan Reference**

State of Louisiana: LPRRP Chapter 5, Section IV.A; Attachments 1, 2, and 3

Tensas Parish: Attachment 2, Chapter 2.B

### **Criterion Evaluation**

State of Louisiana: **Adequate**

Tensas Parish: **Adequate**

- G.2 The public information program shall provide the permanent and transient adult population within the plume exposure EPZ an adequate opportunity to become aware of the information annually. The programs should include provision for written material that is likely to be available in a residence during an emergency. Updated information shall be disseminated at least annually. Signs or other measures (e.g., decals, posted notices, or other means placed in hotels, motels, gasoline stations, and phone booths) shall also be used to disseminate to any transient population within the plume exposure pathway EPZ appropriate information that would be helpful if an emergency or accident occurs. Such notices should refer the transient to the telephone directory or other source of local emergency information and guide the visitor to appropriate radio and television frequencies.

### **Criterion Statement**

State of Louisiana: The Louisiana Peacetime Radiological Response Plan (LPRRP), January 2009 is adequate. The state plan includes information on the method used to provide emergency information to transient populations, selecting locations to post such information, and auditing the postings periodically in order to assure they are updated.

Tensas Parish: This criterion is adequate. The state plan includes information on the method used to provide emergency information to transient populations, selecting locations to post such information, and auditing the postings periodically in order to assure they are updated.

### **Plan Reference**

State of Louisiana: LPRRP Chapter 5, Section IV.A.6; Attachments 1, 2, and 3

Tensas Parish: LPRRP Chapter 5, Section IV.A.6; Attachment 2, Section IV, Chapter 2.B

### **Criterion Evaluation**

State of Louisiana: **Adequate**

Tensas Parish: **Adequate**

### **Corrections**

State of Louisiana: Change cross-reference from Section IV. A 6 to IV A.7.

Tensas Parish: Change cross-reference from Section IV. A 6 to IV A.7.

- G.3.a Each principal organization shall designate the points of contact and physical locations for use by news media during an emergency.

### **Criterion Statement**

State of Louisiana: The Louisiana Peacetime Radiological Response Plan (LPRRP), January 2009 is adequate to meet the intent of Criterion G.3.a. The State plan identifies the organizations that will designate a spokesperson and describes the method they will use to coordinate information. The plan also describes the method for addressing rumor control. In addition, the plan indicates that spokespersons from agencies identified to designate a spokesperson will participate in joint media briefings at a designated Joint Information Center (JIC).

Tensas Parish: This criterion is adequate. The plan addresses points of contact for use by the media during an emergency.

### **Plan Reference**

State of Louisiana: LPRRP Chapter 5, Section IV.B; Attachments 1, 2, and 3

Tensas Parish: Attachment 2, Section IV, Chapter 2.B

### **Criterion Evaluation**

State of Louisiana: **Adequate**

Tensas Parish: **Adequate**

- G.4.a Each principal organization shall designate a spokesperson that should have access to all necessary information.

### **Criterion Statement**

State of Louisiana: Louisiana Peacetime Radiological Response Plan (LPRRP), January 2009 is adequate to meet the intent of Criterion G.4.a. The State plan describes the individual(s) by title who will serve as the main spokesperson at the State level. It also identifies how information will be provided to the spokesperson and the titles of the individuals who may be responsible for providing information to the spokesperson.

Tensas Parish: This criterion is adequate. The referenced portions of the plan fully address criterion G.4.a. The parish plan describes the individual(s) by title who will serve as the main spokesperson at the State level. It also identifies how information will be provided to the spokesperson and the titles of the individuals who may be responsible for providing information to the spokesperson. The cross-reference includes a reference that does not apply to this criterion and should be deleted.

### **Plan Reference**

State of Louisiana: LPRRP Chapter 5, Section IV.B; Attachments 1, 2, and 3

Tensas Parish: Attachment 2, Section IV, Chapter 2.B; Enclosure 1, Section D.1.c

### **Criterion Evaluation**

State of Louisiana: **Adequate**

Tensas Parish: **Adequate**

- G.4.b Each organization shall establish arrangements for timely exchange of information among designated spokespersons.

### **Criterion Statement**

State of Louisiana: Louisiana Peacetime Radiological Response Plan (LPRRP), January 2009 is adequate to meet the intent of Criterion G.4.b. The referenced portion of the plan clearly describes the method by which timely communication between designated spokespersons will occur.

Tensas Parish: This criterion is adequate. The plan contains a designated spokesperson by title for the State, LDEQ, and for each risk parish. The State spokespersons will exchange information with the applicable official organizations (parish, utility, NRC and FEMA) which may be involved in compiling information during an accident. Periodic joint news media briefings will be held at the designated Media Center/Joint Information Center. The Police Jury President, Mayor or the Parish PIO may serve as the Parish Spokesperson



### **Plan Reference**

State of Louisiana: LPRRP Chapter 5, Section IV.B; Attachments 1, 2, and 3

Tensas Parish: LPRRP, Chapter 5, Section IV.B; Attachment 2, Section IV, Chapter 2.B

### **Criterion Evaluation**

State of Louisiana: **Adequate**

Tensas Parish: **Adequate**

- G.4.c Each organization shall establish coordinated arrangements for dealing with rumors.

### **Criterion Statement**

State of Louisiana: The Louisiana Peacetime Radiological Response Plan (LPRRP), January 2009 is adequate. The state plan adequately identifies the organization responsible for rumor control.

Tensas Parish: This criterion is adequate. The plan identifies the organization responsible for rumor control and provides phone numbers for inquiries.

### **Plan Reference**

State of Louisiana: LPRRP Chapter 5, Section IV.B.4; Attachments 1, 2, and 3

Tensas Parish: LPRRP Chapter 5, Section IV.B.4 Attachment 2, Section IV, Chapter 2.B

### **Criterion Evaluation**

State of Louisiana: **Adequate**

Tensas Parish: **Adequate**

- G.5 Each organization shall conduct coordinated programs at least annually to acquaint news media with the emergency plans, information concerning radiation, and points of contact for release of public information in an emergency.

### **Criterion Statement**

State of Louisiana: Louisiana Peacetime Radiological Response Plan (LPRRP), January 2009 is adequate to meet the intent of Criterion G.5. The referenced portion of the plan adequately describes the annual news media training program for which the State, local, and utility will participate.

Tensas Parish: This criterion is adequate. According to the State plan, the State, utility and local governments will conduct an annual program to acquaint the news media with emergency plans, information on radiation and points/places that can be contacted for the release of public information. The parish plan includes a reference to the media kits that contain information on media center locations, telephone information for media inquiries, and general information on radiation exposure and health effects.

### **Plan Reference**

State of Louisiana: LPRRP Chapter 5, Section IV.A.7; Attachments 1, 2, and 3

Tensas Parish: Attachment 2, Section IV, Chapter 2.B

### **Criterion Evaluation**

State of Louisiana: **Adequate**

Tensas Parish: **Adequate**

- H. **Emergency Facilities and Equipment Planning Standard:** Adequate emergency facilities and equipment to support the emergency response are provided and maintained.

## **MISSISSIPPI**

### **H. Evaluation: Adequate**

#### **H. Statement**

The Governor, assisted by the MEMA Director and staff and the heads/coordinators of state agencies, will exercise direction and control from the State Emergency Operations Center (SEOC) in Jackson, Mississippi or from his normal office location. The SEOC will be partially staffed during an Alert or higher emergency classification. The SEOC will be activated for an incident at a fixed nuclear facility if the Emergency Classification Level (ECL) is ALERT or higher. The ultimate responsibility for the county's emergency response to an accident at GGNS belongs to and is directed by Port Gibson/ Claiborne County elected officials. The Port Gibson/ Claiborne County Civil Defense Director serves at the direction of the Claiborne County Board of Supervisors and the Mayor and Board of Aldermen of the town of Port Gibson and is responsible for coordinating emergency response activities in Claiborne County. The Port Gibson/ Claiborne County Civil Defense Director makes all routine decisions and advise county and city elected officials on courses of action available for major decisions. During the response, the Port Gibson/ Claiborne County Civil Defense Director are responsible for the proper functioning of the Claiborne County Emergency Operations Center (EOC). The PG/CCCD Director also acts as liaison with state agencies.

If additional assistance is needed from either state or federal sources, the elected officials or their authorized representative will make all such requests through MEMA.

Each State agency assigned a responsibility for radiological monitoring, sample collection or analysis will supply and maintain its own specialized equipment and modes of transportation. Basic radiological monitoring and dosimetry equipment will be furnished by MEMA. After each exercise or drill, the MSDH/DRH will inspect, inventory and operationally check all RERT emergency response equipment. Calibration of emergency monitoring equipment utilized by the RERTs will be performed annually by the MSDH/DRH. All other radiological monitoring and dosimetry equipment used by the REP program will be maintained and annually operationally checked by MEMA. Appendix G contains identification of emergency kits by general category. Annex G, Appendix 7 of the MREPP provides a listing of monitoring equipment stored at various locations in the vicinity of the nuclear facility.

MSDH/DRH will supervise the sampling of air, surface waters, cisterns, open wells, edible agriculture commodities, milk, fish, pasture grass and animal feed. Radioisotopic analysis of samples collected in an affected area during a radiological emergency will be performed by the MSDH/DRH at the fixed MSDH/DRH Laboratory. In the event the number of samples is too large to allow processing in an expedient manner, provisions have been made with the EPA for assistance from their labs at Montgomery, Alabama and Las Vegas, Nevada, to assist in the analyses. Mobile laboratories of DOE will also assist in sample analysis if needed.

The Claiborne County EOC is the location for county, city and volunteer agencies to coordinate their response actions among themselves and with state and federal agencies. The plan outlines Classification Levels and who will be contacted to staff the EOC, which includes mission essential names and contact information. Annex G, Appendix 8 of the Port Gibson/Claiborne County Radiological Emergency Preparedness Plan provides a listing of MEMA monitoring equipment stored at various locations in the vicinity of the nuclear facility. It is the responsibility of the MEMA to provide radiation detection equipment and establish a program for the inspection, maintenance, calibration and distribution of radiation detection equipment. The responsibility to coordinate and direct sampling, monitoring, laboratory analyses in the Ingestion Exposure Pathway EPZ falls to the MSDH/DRH.

## **LOUISIANA**

### **H. Emergency Facilities and Equipment**

Adequate emergency facilities and equipment to support the emergency response are provided and maintained.

- H.3 Each organization shall establish an emergency operations center for use in directing and controlling response functions.

### **Criterion Statement**

State of Louisiana: Louisiana Peacetime Radiological Response Plan (LPRRP), January 2009 is adequate. The plan contains information on alternate EOC location, EOC layout, and a list of major equipment needed in the EOC.

Tensas Parish: This criterion is adequate. The Tensas Parish Emergency Operations Center is located at the Courthouse Complex, Hancock Street, St. Joseph, Louisiana.

### **Plan Reference**

State of Louisiana: LPRRP Basic Plan, Section IV. F. 5; Attachments 1, 2, and 3

Tensas Parish: Attachment 2, Enclosure 1, Section C

### **Criterion Evaluation**

State of Louisiana: **Adequate**

Tensas Parish: **Adequate**

- H.4 Each organization shall provide for timely activation and staffing of the facilities and centers described in the plan.

### **Criterion Statement**

State of Louisiana: Louisiana Peacetime Radiological Response Plan (LPRRP), January 2009 is adequate. The state plan provides for timely activation and staffing of centers.

Tensas Parish: This criterion is adequate. The Alert Notification System will be activated in the Parish. Emergency response personnel will be activated by the alert/notification call system. Notification and activation are consistent with the emergency classifications scheme described in the procedures.

- For an Unusual Event - no activation is anticipated
- Alert - Emergency Preparedness Coordinator (EPC) and key staff are activated, EOC and support organizations are placed on standby
- Site Area Emergency – EPC will activate the EOC and other emergency response centers
- General Emergency – other key individuals, supporting response organizations and emergency response centers will be activated.

### **Plan Reference**

State of Louisiana: LPRRP, Basic Plan, Sections VI.A 6 and VI. B. 5.u

Tensas Parish: Attachment 2, Enclosure 1, Section E

### **Criterion Evaluation**

State of Louisiana: **Adequate**

Tensas Parish: **Adequate**

- H.7 Each organization, where appropriate, shall provide for offsite radiological monitoring equipment in the vicinity of the nuclear facility.

### **Criterion Statement**

State of Louisiana: Louisiana Peacetime Radiological Response Plan (LPRRP), January 2009 is adequate to meet the intent of Criterion H.7. The plan identifies all available equipment that can be used in response to a nuclear power plant accident. In addition, the State plan also identifies equipment used to perform laboratory sampling and environmental monitoring in the vicinity of all the nuclear plants that impact the State of Louisiana.

Tensas Parish: This criterion is adequate. The plan identifies the agency responsible for monitoring and maintenance of monitoring equipment.

### **Plan Reference**

State of Louisiana: LPRRP Basic Plan, Section IV.G; Chapter 6, Section III.A, Tabs 3 and 4

Tensas Parish: LPRRP, Chapter 6, Tab 3. Paragraph G; Attachment 2, Section IV, Chapter 5, Tab A

### **Criterion Evaluation**

State of Louisiana: **Adequate**

Tensas Parish: **Adequate**

- H.10 Each organization shall make provisions to inspect, inventory, and operationally check emergency equipment/instruments at least once each calendar quarter and after each use.

There shall be sufficient reserves of instruments/equipment to replace those that are removed from emergency kits for calibration or repair. Calibration of equipment shall be at intervals recommended by the supplier of the equipment.

### **Criterion Statement**

State of Louisiana: Louisiana Peacetime Radiological Response Plan (LPRRP), January 2009 is adequate. The plan makes provisions for maintenance and calibration of equipment in such intervals that there is always a reserve of equipment available.

Tensas Parish: This criterion is adequate. At the parish level, the emergency equipment will be inspected, inventoried and functionally checked each calendar quarter and after each use under the supervision of the Radiological Defense Officer. Reserve equipment will be supplied by LHLS/EP.

### **Plan Reference**

State of Louisiana: LPRRP Chapter 6, Tab 3, Paragraph G

Tensas Parish: LPRRP, Chapter 6, Tab 3; Paragraph G; Attachment 2, Section IV, Chapter 5.B.5

### **Criterion Evaluation**

State of Louisiana: **Adequate**

Tensas Parish: **Adequate**

- H.11 Each plan shall, in an appendix, include identification of emergency kits by general category (protective equipment, communications equipment, radiological monitoring equipment, and emergency supplies).

### **Criterion Statement**

State of Louisiana: Louisiana Peacetime Radiological Response Plan (LPRRP), January 2009 is adequate. The plan provides information on inventory for various emergency kits.

Tensas Parish: This criterion is adequate. The plan provides information on inventory for various emergency kits.

### **Plan Reference**

State of Louisiana: LPRRP, Chapter 6, Tab 3, Table 1

Tensas Parish: General Plan, Tab F-1

### **Criterion Evaluation**

State of Louisiana: **Adequate**

Tensas Parish: **Adequate**

- H.12 Each organization shall establish a central point (preferably associated with the licensee's near-site Emergency Operations Facility), for receipt and analysis of all field monitoring data and coordination of sample media.

### **Criterion Statement**

State of Louisiana: Louisiana Peacetime Radiological Response Plan (LPRRP), January 2009 is adequate. The plan identifies the method that will be used to transfer samples to the laboratory for analysis as well as the method for communicating analysis results.

Tensas Parish: This criterion is adequate. Initially, the State field monitoring teams (FMT) will be directed and controlled from LDEQ Headquarters. Subsequently, the teams are controlled by the FMT Coordinator, located at the utility's EOF from where the utility's FMTs are also controlled. Two-way radios are used for coordination of FMTs activities.

### **Plan Reference**

State of Louisiana: LPRRP Chapter 6, Tab 3, Paragraph A, F, and G

Tensas Parish: LPRRP, Chapter 6, Tab 3, A and E

### **Criterion Evaluation**

State of Louisiana: **Adequate**

Tensas Parish: **Adequate**

- H. Accident Assessment Planning Standard:** Adequate methods, systems and equipment for assessing and monitoring actual or potential offsite consequences of a radiological emergency condition are in use.

## **MISSISSIPPI**

### **I. Evaluation: Adequate**

### **I. Statement:**

The MSDH/DRH will supervise the emergency environmental sampling of air, surface waters, cisterns, open wells, edible agriculture commodities, milk, fish, pasture grass and animal feed. Annex O of the MREPP contains a map of routine environmental Sampling Stations with procedures outlined in Appendix 1. The following state agencies will, when requested by the Radiological Emergency Response Team Coordinator (RERTC), conduct specific functions: Mississippi Department of Transportation, Department of Environmental Quality, Mississippi State Department of Health/Division of Radiological Health, Department of Wildlife, Fisheries and Parks, Mississippi Department of Agriculture and Commerce, Mississippi State University-Extension Service, Mississippi Board of Animal Health. Radioisotopic analysis of samples collected in an affected area will be performed by the MSDH/DRH.

Radiological Emergency Response Team (RERT) Health Physicists from MSDH/DRH will act as RERT members. They will be mobile, will report on contamination levels, dose measurements and perform environmental sampling as needed. In addition, the individual team captains, in coordination with the RERTC, will be responsible for the dosimetry of emergency workers under their supervision and the evaluation of their measured exposure. MEMA will provide communications equipment for the RERTs. MDOT will provide backup vehicles with communications equipment along with support personnel for the RERTs.

If an accident occurs at the GGNS or RBS, the MSDH/DRH will activate the RERT. The RERTs will perform radiological monitoring, analyses and assessment.

MEMA has established means for relating the various measured parameters to dose rates for key isotopes and gross radioactivity measurements. Provisions have been made for estimating integrated dose from the projected and actual dose rates and for comparing these estimates with the protective action guides.

Arrangements to locate and track the airborne radioactive plume with State and Federal Resources have been established by MEMA. Initially using the fixed nuclear facility operator and then State resources (MEMA/MSDH/DRH) and if required, a neighboring States resources (SMRAP) and lastly, Federal resources (FRERP and/or FRMAC).

Claiborne County will have no accident assessment function and will be advised of dose projections and recommended protective actions by the State EOC. Claiborne County Civil Defense will implement the recommendations in a manner consistent with county emergency preparedness plans and procedures.

Port Gibson/Claiborne County Civil Defense is responsible for providing radiological monitoring and decontamination for emergency workers. This activity will take place at Emergency Worker Decontamination Stations at county fire stations in Pattison and Hermanville. An additional Emergency Worker Decontamination Station is located at the Vicksburg Fire Department, Station 5, Vicksburg Airport. The PG/CC EOC will serve as a backup Emergency Worker Decontamination Station.



Port Gibson and Claiborne County will provide personnel to conduct radiological monitoring and to assist with procedures for the decontamination of emergency workers and their equipment. Exposure control for all county and city emergency workers through the issuance of dosimetry to each emergency worker in the EPZ, and a plan to rotate emergency workers to balance whole body doses received. Decontamination records will be maintained and reported to MSDH/DRH at the conclusion of the emergency.

To accurately determine potential dose commitments to the thyroid resulting from airborne radioiodine, all radiological monitoring teams will be equipped with air sampling devices capable of collecting radioiodine in the presence of noble gases. The air samplers are programmed to take a 10 ft<sup>3</sup> sample and automatically shut off. If the unit shuts off before the 10 ft<sup>3</sup> sample is completed, note the sample volume displayed on the top of the sampler. Observe your survey instruments to get a post sample reading. Using the Ludlum 44-40, it can be easily demonstrated that the LM 44-40 is capable of reliably measuring  $5 \times 10^{-8}$   $\mu\text{Ci}/\text{cm}^3$  of Iodine-131 in a 10 ft<sup>3</sup> air sample with a background of 100 CPM.

There are 3 MEMA-REP Boxes stocked and available for immediate use containing survey instruments and/or dosimetry and supplies. These MEMA-REP Boxes have been issued to Claiborne County emergency response organizations.

## **LOUISIANA**

### **I. Accident Assessment**

Adequate methods, systems, and equipment for assessing and monitoring actual or potential offsite consequences of a radiological emergency condition are in use.

- I.7 Each organization shall describe the capability and resources for field monitoring within the plume exposure Emergency Planning Zone that are an intrinsic part of the concept of operations for the facility.

### **Criterion Statement**

State of Louisiana: Louisiana Peacetime Radiological Response Plan (LPRRP), January 2009 is adequate to meet the intent of Criterion I.7. The State plan adequately addresses the field monitoring and resource capability.

Tensas Parish: This criterion is adequate. The State plan contains detailed information on both State and utility field monitoring team's activities including but not limited to the following:

- Number of members per team and roles & responsibilities;
- Communication methods, PPE and dosimetry;
- Sampling and monitoring equipment;
- Operations methods and monitoring & sampling procedures; and

- Long range assessment capabilities

### **Plan Reference**

State of Louisiana: LPRRP Chapter 6, Tab 3

Tensas Parish: LPRRP, Chapter 6, Tab 3 and Tab 5

### **Criterion Evaluation**

State of Louisiana: **Adequate**

Tensas Parish: **Adequate**

- I.8 Each organization, where appropriate, shall provide methods, equipment and expertise to make rapid assessments of the actual or potential magnitude and locations of any radiological hazards through liquid or gaseous release pathways. This shall include activation, notification means, field team composition, transportation, communication, monitoring equipment, and estimated deployment times.

### **Criterion Statement**

State of Louisiana: Louisiana Peacetime Radiological Response Plan (LPRRP), January 2009 is adequate. The plan addresses activation, notification, communication, monitoring equipment and estimated deployment times of response members.

Tensas Parish: This criterion is adequate. The plan adequately addresses the capability to rapidly assess radiation hazards.

### **Plan Reference**

State of Louisiana: LPRRP Chapter 6, Tab 3

Tensas Parish: LPRRP Chapter 6, Tab 3; Attachment 2, Section IV, Chapter III.B.2

### **Criterion Evaluation**

State of Louisiana: **Adequate**

Tensas Parish: **Adequate**

- I.9 Each organization shall have a capability to detect and measure radioiodine concentrations in air in the plume exposure EPZ as low as 10-7 $\mu$ Ci/cc (microcuries per cubic centimeter) under field conditions. Interference from the presence of noble gas and background radiation shall not decrease the stated minimum detectable activity.

### **Criterion Statement**

State of Louisiana: Louisiana Peacetime Radiological Response Plan (LPRRP), January 2009 is adequate. The plan provides detailed information on the capability of the state to detect and measure radioiodine concentrations in air.

Tensas Parish: Not Applicable

### **Plan Reference**

State of Louisiana: LPRRP Chapter 6, Tab 3, Paragraph F

Tensas Parish: LPRRP Chapter 6, Tab 3, Paragraph F

### **Criterion Evaluation**

State of Louisiana: **Adequate**

Tensas Parish: Not Applicable

- I.10 Each organization shall establish means for relating the various measured parameters (e.g., contamination levels, water, and air activity levels) to dose rates for key isotopes (i.e., those given in Table 3, page 18) and gross radioactivity measurements. Provisions shall be made for estimating integrated dose from the projected and actual dose rates and for comparing these estimates with the protective action guides. The detailed provisions shall be described in separate procedures.

### **Criterion Statement**

State of Louisiana: Louisiana Peacetime Radiological Response Plan (LPRRP), January 2009 is adequate-corrections must be made. The plan describes the methods used by the state to calculate integrated and projected doses. The plan identifies the dose assessment model used for calculations as well as required equipment.

Tensas Parish: Not Applicable

### **Plan Reference**

State of Louisiana: LPRRP Chapter 6, 7, 8, and 11

Tensas Parish: Not Applicable

### **Criterion Evaluation**

State of Louisiana: **Adequate**

Tensas Parish: Not Applicable

- I.11 Arrangements to locate and track the airborne radioactive plume shall be made, using either or both federal and State resources.

### **Criterion Statement**

State of Louisiana: Louisiana Peacetime Radiological Response Plan (LPRRP), January 2009 is adequate to meet the intent of Criterion I.11. The State plan describes the arrangement to track and plot airborne releases using utility information and State resources.

Tensas Parish: Not Applicable

### **Plan Reference**

State of Louisiana: LPRRP Chapter 6, Tab 3, Paragraph H

Tensas Parish: Not Applicable

### **Criterion Evaluation**

State of Louisiana: **Adequate**

Tensas Parish: Not Applicable

- J. **Protective Response Planning Standard:** A range of protective actions has been developed for the plume exposure pathway EPZ for emergency workers and the public. In developing this range of actions, consideration has been given to evacuation, sheltering, and, as a supplement to these, the prophylactic use of potassium iodide (KI), as appropriate (66 FR 5427). Guidelines for the choice of protective actions during an emergency, consistent with Federal guidance, are developed and in place, and protective actions for the ingestion exposure pathway EPZ appropriate to the locale have been developed.

## **MISSISSIPPI**

### **J. Evaluation: Adequate**

### **J. Statement**

MEMA has established provisions for evacuation routes and transportation for GGNS onsite personnel to proceed to Warren County Reception Center to be monitored and registered if the evacuation traffic control management plan has been activated and the reception center opened. GGNS onsite personnel are to follow prescribed evacuation routes out of the area as outlined in the GGNS Emergency Plan. Provisions are made for consideration of weather conditions, traffic, and/or radiological impediments. An evacuation of GGNS onsite personnel could be ordered at an Alert, SAE, or GE, based on plant conditions. However, if the GGNS releases their employees prior to the Reception Center opening, then those released employees are directed to go home. MEMA has established a capability for implementing protective measures based upon protective action guides. This is consistent with the recommendations of EPA regarding exposure resulting from passage of radioactive airborne plumes, (EPA-520/1-75-001) and with those of (DHHS)/FDA regarding radioactive contamination of human food and animal feeds as published in the Federal Register of December 15, 1978 (43-FR-58790). Protective actions will be outlined according to the implemented emergency classification listing and the radiological exposure control measures for Emergency Workers.

MEMA has maps showing evacuation routes, evacuation areas, pre-selected radiological sampling and monitoring points, relocation centers in host areas, and shelter areas. MEMA has an electronic map in a sector format by evacuation areas showing population distribution around the GGNS nuclear facility. MEMA has established means for notifying all segments of the transient and resident population. When, in the course of an emergency, protective actions for the public are to be recommended or ordered, the public Alert and Notification System (ANS) provides Mississippi the capability for transmitting both an alert signal, via sirens and an informational or instructional message, via the Emergency Alert System (EAS), to essentially 100% of the population throughout the 10 mile plume exposure pathway within 15 minutes of a protective action decision. Activation of this system is a combined state and local responsibility. Tone alert receivers are placed in various locations to supplement the siren system.

State and local plans indicate how they will provide for those whose mobility may be impaired. The counties maintain lists of individuals who may need assistance during an evacuation. The counties have also planned for the evacuation of those in school, daycare, hospitals, nursing homes, assisted living and other facilities where residents may need assistance when an evacuation has been ordered.

State and/or County Health Directors will make the decision to administer KI and will base the decision on the EPA PAGs and information concerning the release of radioiodine. Claiborne County plans include the method by which decisions by the Mississippi State Department of Health for administering radioprotective drugs to emergency workers will be made during an emergency and the predetermined conditions under which such drugs will be used by offsite emergency workers. In the event of incident at GGNS involving the release of radioactive material all efforts will be made to evacuate the general population prior to exposure.

However, in a fast breaking emergency such measures may not be feasible. Under such conditions, it is MSDH's goal that any radiation exposure to the general population be as low as reasonably achievable (ALARA). If the general population is exposed to radioiodine during an emergency at GGNS, MSDH through the local county health departments (CHD) will provide KI at the reception centers to supplement the protective measures of evacuation and sheltering-in-place, in accordance with the FDA procedural guidance document, Potassium Iodide as a Thyroid Blocking Agent in Radiation Emergencies dated December 2001.

The basis for protective action decisions are given in the State RERP plan in section V. Protective Action Guides and Annex E entitled Protective Response in the local Claiborne County plan. The primary means for relocation will be the private automobile. The county has made arrangements to provide assistance to those individuals or groups that may require assistance. The county plan discusses the traffic capacity of the evacuation network. The plans state that the Mississippi Highway Patrol with the assistance of local law enforcement personnel is responsible for controlling access to evacuated areas. The Mississippi Department of Transportation is responsible for clearing impediments to evacuation and the evacuation time estimates are maintained in a separate document in the Emergency Management offices or in the EOCs and was submitted by the applicant. The new evacuation time estimate study includes a section on traffic management strategy.

The State is responsible for actions within the ingestion pathway and has delineated its response. DRH is responsible to provide recommendations to the MEMA Director. The plan outlines the types of protective actions that can be taken to ensure that contaminated food and water are not consumed.

Claiborne County has plans and SOPs to monitor, decontaminate if necessary and house evacuees at congregate care centers within the community. The county uses fire department personnel to monitor evacuees and Wake County will use personnel from the Environmental Services Department.

## **LOUISIANA**

### **J. Protective Response**

A range of protective actions have been developed for the plume exposure pathway EPZ for emergency workers and the public.

[In developing this range of actions, consideration has been given to evacuation, sheltering, and as a supplement to these, the prophylactic use of potassium iodide (KI), as appropriate. Guidelines for the choice of protective actions during an emergency, consistent with Federal guidance, are developed and in place, and protective actions for the ingestion exposure pathway EPZ appropriate to the locale have been developed.

- J.2 Each licensee shall make provisions for evacuation routes and transportation for onsite individuals to some suitable offsite location, including alternatives for inclement weather, high traffic density, and specific radiological conditions.

### **Criterion Statement**

State of Louisiana: Louisiana Peacetime Radiological Response Plan (LPRRP), January 2009 is adequate to meet the standard for criterion J.2. The plan provides information on the assistance provided by the state with evacuation of on site personnel.

Tensas Parish: This criterion is adequate. The plan states evacuations will be conducted using Protective Action Section via pre-determined evacuation routes. The decision to evacuate is made by the Police Jury President based on LDEQ recommendation. The plan clearly identifies evacuation routes to reception centers for monitoring and decontamination. The primary means of evacuation will be by private vehicles and car-pooling arrangements will be implemented to accommodate those without transportation. Strict traffic control measure will be used to:

- Control ingress and egress of affected areas;
- Maintain orderly flow of traffic;
- Remove impediments;
- Assure access of ambulance and rescue vehicles; and
- Assure area security.

Periodic law enforcement and/or emergency personnel patrols will canvas areas to maintain order, assist the disabled, and confirm evacuation of remaining persons.

### **Plan Reference**

State of Louisiana: LPRRP Chapter 7, Section III.E; Attachments 1, 2, and

Tensas Parish: Attachment 2, Enclosure I, Section G.3

### **Criterion Evaluation**

State of Louisiana: **Adequate**

Tensas Parish: **Adequate**

- J.9 Each State and local organization shall establish a capability for implementing protective measures on the basis of Protective Action Guides and other criteria. This shall be consistent with the recommendations of the EPA regarding exposure resulting from passage of radioactive airborne plumes, (EPA-520/1-75-001) and with those of DHEW (DHHS)/ FDA regarding radioactive contamination of human food and animal feeds as published in the Federal Register of December 15, 1978 (43 FR 58790).

### **Criterion Statement**

State of Louisiana: Louisiana Peacetime Radiological Response Plan (LPRRP), January 2009 is adequate. The state plan references implementing procedures which describe capability to make protective action recommendations to those with the decision making authority.

Tensas Parish: This criterion is adequate. The plan States that LDEQ will notify the parish of protective response recommendations. A decision is made by the parish and reported back to LDEQ. The parish will coordinate operational elements for implementation of the protective actions with LHLS/EP. Actions to protect the public include notification and evacuation within the EPZ; controlled entrance to the affected area(s); implementation of procedures to prevent consumption and distribution of contaminated food and water; and monitoring and decontamination when necessary.

Schools will be notified and the children will be evacuated via school buses and transported outside the EPZ to designated reception center(s). Children will remain under supervision until returned to their parents.

### **Plan Reference**

State of Louisiana: LPRRP Chapter 7, Section III. A; Chapter 8, Section IV, Tabs 2 and 3

Tensas Parish: Attachment 2, Section IV. 3.B; Enclosure I, Section G

### **Criterion Evaluation**

State of Louisiana: **Adequate**

Tensas Parish: **Adequate**

- J.10.a Maps showing evacuation routes, evacuation areas, pre-selected radiological sampling and monitoring points, relocation centers in host areas, and shelter areas (identification of radiological sampling and monitoring points shall include the designators in Table J-1 or an equivalent uniform system described in the plan)

### **Criterion Statement**

State of Louisiana: Louisiana Peacetime Radiological Response Plan (LPRRP), January 2009 is adequate. The plan contains or references information on evacuation routes, evacuation areas, pre-selected monitoring points, relocation centers, shelters and organizations with the responsibility to provide and update maps of these items.



Tensas Parish: This criterion is adequate. The plan provides several maps identifying evacuation routes, reception centers and shelters. The plan also includes protective action information and radiological sampling and monitoring locations.

#### **Plan Reference**

State of Louisiana: LPRRP Basic Plan, Section VI.5.v, Chapter 5, Section IC.5; Attachments 1, 2, and 3

Tensas Parish: Attachment 2, Appendix B, D, Tab C; Appendix E; Enclosure I, Figures G-1 and G-1a

#### **Criterion Evaluation**

State of Louisiana: **Adequate**

Tensas Parish: **Adequate**

- J.10.b Maps showing population distribution around the nuclear facility. This shall be by evacuation areas 47 (licensees shall also present the information in a sector format);

#### **Criterion Statement**

State of Louisiana: Louisiana Peacetime Radiological Response Plan (LPRRP), January 2009 is adequate. The required maps are found in the applicable plan attachments. For this site, the applicable attachment is Attachment 2.

Tensas Parish: This criterion is adequate. The plans include maps and tables for the protective action sections (PAS) within the EPZ. The plan also provides projected permanent and transient populations within the PAS and the projected resident population within the 10-mile and 50-mile EPZ by sectors.

#### **Plan Reference**

State of Louisiana: LPRRP Attachments 1, 2 and 3

Tensas Parish: Attachment 2, Appendix B; Appendix C, Tab A

#### **Criterion Evaluation**

State of Louisiana: **Adequate**

Tensas Parish: **Adequate**

- J.10.c Means for notifying all segments of the transient and resident population

### **Criterion Statement**

State of Louisiana: This criterion is adequate. The public alert/notification system is a combination of parish, State and utility alert systems (sirens, monitors, mobile loudspeakers, etc.) as well as alert radio stations. LDEQ and the utility (ies) are responsible for providing pre-emergency public information programs. GOHSEP is responsible for disseminating emergency information by activating the Emergency Alert System (EAS) which is part of the coordinated State/parish public alert system.

GOHSEP is responsible for disseminating emergency information to the public through activation of the Emergency Alert System (EAS) which is part of the coordinated State/parish public alert system.

The Governor's Press Secretary/Designee is responsible for the release of statewide emergency public information to the news media. The Press Secretary coordinates with the Public Information Officers/representatives of the applicable official organizations (federal, State, local and utility).

Tensas Parish: This criterion is adequate. The primary alert systems for the parish are fixed sirens, tone activated radios and the U.S. Coast Guard route alerting for the Mississippi River traffic. The Alert Notification System (ANS) located throughout the 10-mile EPZ will be used to alert the public to listen to the EAS radio stations. Tone activated radios are provided for special facilities.

Mobile sirens and public address systems mounted on patrol cars, fire department, and other emergency response vehicles will provide backup alert notification.

### **Plan Reference**

State of Louisiana: LPRRP Chapter 4; Attachments 1, 2, and 3

Tensas Parish: Attachment 2, Enclosure I, Section E.5 and Section F.7

### **Criterion Evaluation**

State of Louisiana: **Adequate**

Tensas Parish: **Adequate**

- J.10.d Means for protecting those persons whose mobility may be impaired due to such factors as institutional or other confinement;

### **Criterion Statement**

State of Louisiana: Peacetime Radiological Response Plan (LPRRP), January 2009 is adequate. The plan discussed in detail the State level actions that will be taken to protect mobility impaired members of the public.

Tensas Parish: This criterion is adequate. Evacuations are at the direction of the Parish Police Jury President in coordination with LDEQ. The Emergency Alert System (EAS), tone activated radios, and commercial telephones are used to alert the public, special needs and special facilities (i.e. schools, medical, incarceration and major industry). The EAS system will alert the public to listen to the EAS radio station for emergency information.

School children will be evacuated via school buses. Rescue/emergency vehicles or school bus will be used to assist with evacuation of the special-need evacuees. The plans and operating procedures for the nursing home provides their own transportation. The Tensas Parish Detention Center uses the Franklin Parish Sheriff's Department vehicles to evacuate the prisoners.

### **Plan Reference**

State of Louisiana: LPRRP Chapter 7, Section III.F.4; Section IV.A.5; Section IV.B.3

Tensas Parish: Attachment 2, Enclosure I, Section G.3

### **Criterion Evaluation**

State of Louisiana: **Adequate**

Tensas Parish: **Adequate**

- J.10.e Provisions for the use of radio protective drugs, particularly for emergency workers and institutionalized persons within the plume exposure EPZ whose immediate evacuation may be infeasible or very difficult, including quantities, storage, and means of distribution.

### **Criterion Statement**

State of Louisiana: Peacetime Radiological Response Plan (LPRRP), January 2009 is adequate to meet the intent of criterion J.10.e. The plan provides information on the supply, storage, and distribution of KI.

Tensas Parish: This criterion is adequate. The General Plan references the LPRRP "Radiological Exposure Control" chapter, States that Potassium Iodide (KI) will be available to individuals in nursing homes, those confined to hospitals and prisons.

The LDEQ Secretary and the State Health Officer will coordinate with attending physicians for administration of KI.

The parish plans state that the Department of Health and Hospitals (DHH) Parish Health Unit is responsible for assisting with the acquisition for radio protective drugs for the use by emergency workers and institutionalized persons, if required.

### **Plan Reference**

State of Louisiana: LPRRP Chapter 7, Section IV.A.5; Section IV.B.2 and 3; Chapter 9, Section V.B.2 and Tab 1

Tensas Parish: Attachment 2, Section IV.5.4; Enclosure I, Section D.2

### **Criterion Evaluation**

State of Louisiana: **Adequate**

Tensas Parish: **Adequate**

- J.10.f State and local organizations' plans should include the method by which decisions by the State Health Department for administering radio protective drugs to the general population are made during an emergency and the pre-determined conditions under which such drugs may be used by offsite emergency workers.

### **Criterion Statement**

State of Louisiana: Peacetime Radiological Response Plan (LPRRP), January 2009 is adequate to meet the intent of this criterion. The referenced portions of the plan clearly describe the authority by title and agency that is responsible for making decisions regarding the use of KI. The plan also describes the criteria used to make decisions about recommending the use of KI.

Tensas Parish: This criterion is adequate. The parish plan provides information on the use of KI and the method by which KI decisions will be made.

### **Plan Reference**

State of Louisiana: LPRRP Chapter 9

Tensas Parish: LPRRP Chapter 9, Section IV.A; Attachment 2, Enclosure I, Section D.2

### **Criterion Evaluation**

State of Louisiana: **Adequate**

Tensas Parish: **Adequate**

J.10.g Means of relocation.

**Criterion Statement**

State of Louisiana: Louisiana Peacetime Radiological Response Plan (LPRRP), January 2009 is adequate. This criterion is delegated to the parish and the reference for the plan indicates the appropriate attachment which addresses the criterion.

Tensas Parish: This criterion is adequate. Privately owned vehicles will be the primary mode of transportation for evacuating. Local law enforcement is responsible for traffic control measures, area security and assistance with evacuations.

The Emergency Preparedness Coordinator assures that current list of special-need evacuees is available. Emergency vehicles or school buses will be used to assist with evacuation of the special-needs population.

The plans and operating procedures for the nursing home provides their own transportation. The Tensas Parish Detention Center uses the Franklin Parish Sheriff's Department vehicles to evacuate the prisoners.

**Plan Reference**

State of Louisiana: LPRRP Chapter 7, Section III.F, Attachments 1, 2, and 3

Tensas Parish: Attachment 2, Section II.N; Enclosure I, Section G.3

**Criterion Evaluation**

State of Louisiana: **Adequate**

Tensas Parish: **Adequate**

J.10.h Relocation centers in host areas which are at least 5 miles, and preferably 10 miles, beyond the boundaries of the plume exposure emergency planning zone (see J.12).

**Criterion Statement**

State of Louisiana: Louisiana Peacetime Radiological Response Plan (LPRRP) January 2009 is adequate. The plan references the attachments which contain the required information on relocation centers.

Tensas Parish: This criterion is adequate. The plan includes a map identifies a list of reception centers which are located approximately 10-30 miles outside the EPZ.

**Plan Reference**

State of Louisiana: LPRRP Attachments 1, 2, and 3

Tensas Parish: Attachment 2, Enclosure I, Section G.3, figure G-1 and G-1a

**Criterion Evaluation**

State of Louisiana: **Adequate**

Tensas Parish: **Adequate**

J.10.i Projected traffic capacities of evacuation routes under emergency conditions.

**Criterion Statement**

State of Louisiana: Louisiana Peacetime Radiological Response Plan (LPRRP), January 2009 is adequate. The plan references the attachments in which information on evacuations routes are located.

Tensas Parish: This criterion is adequate. The plan contains information from the Evacuation Time Estimate, dated August 1992, methodology and a table with the zones, population category (residents, recreational, work force, and special facilities), weekday/weeknight/weekend population numbers and evacuation times during normal and adverse weather.

**Plan Reference**

State of Louisiana: LPRRP Attachments 1, 2, and 3

Tensas Parish: Attachment 2, Appendix D, Tab A

**Criterion Evaluation**

State of Louisiana: **Adequate**

Tensas Parish: **Adequate**

**Recommendation**

State of Louisiana: Consider updating ETE references to the most current ETE study that was conducted by the applicant and provided with the application for Unit 3.

- J.10.j Control of access to evacuated areas and organization responsibilities for such control.

**Criterion Statement**

State of Louisiana: Louisiana Peacetime Radiological Response Plan (LPRRP), January 2009 is adequate. The state plan contains references to maps depicting the location of control points.

Tensas Parish: This criterion is adequate. The parish plan describes procedures for controlling road access to sheltered or evacuated areas and identifies the organizations responsible for this. Necessary equipment and resources are also identified in the plan. The plan references procedures in which maps depicting the location of access control points are located.

**Plan Reference**

State of Louisiana: LPRRP Chapter 7, Section IV.A.3; Attachments 1, 2, and 3

Tensas Parish: Attachment 2, Enclosure I, Sections D.1.d, D.1.e, D.2.c, G.1 and G.3

**Criterion Evaluation**

State of Louisiana: **Adequate**

Tensas Parish: **Adequate**

- J.10.k Identification of and means for dealing with potential impediments (e.g., seasonal impassability of roads) to use of evacuation routes, and contingency measures.

**Criterion Statement**

State of Louisiana: Louisiana Peacetime Radiological Response Plan (LPRRP), January 2009 is adequate. The State plan provides information that identifies the resources and equipment available for dealing with impediments to maintain traffic flow. The State plan also clearly identifies the organizations responsible for traffic control.

Tensas Parish: This criterion is adequate. In a coordinated effort with the State Police, Sheriff's Department and local law enforcement the potential impediments will be removed to maintain orderly flow of evacuation traffic.

**Plan Reference**

State of Louisiana: LPRRP, Chapter 7, Section III.F.3

Tensas Parish: Attachment 2, Enclosure I, Section D.1.i and Section G.3

### **Criterion Evaluation**

State of Louisiana: **Adequate**

Tensas Parish: **Adequate**

### **Recommendation**

State of Louisiana: Consider removing the vague reference to implementing procedures from the LPRRP Cross Reference Index to NUREG-0654 Criteria and adding a reference to the applicable portions of Enclosure 1 to Attachment 2.

- J.10.1 Time estimates for evacuation of various sectors and distances based on a dynamic analysis (time-motion study under various conditions) for the plume exposure pathway emergency planning zone (see Appendix 4).

### **Criterion Statement**

State of Louisiana: Louisiana Peacetime Radiological Response Plan (LPRRP), January 2009 is adequate. The State plan includes information that addresses time estimates for evacuations of various sectors or areas.

Tensas Parish: This criterion is adequate. The plan contains information from Evacuation Time Estimate, dated August 1992, analysis including a table broken down by three categories:

1. Evacuation Time Estimates (minutes)
2. Population Total of Analysis Zones 1, 8 and 9
3. Population Total of Analysis Zones 1, 19 and 11

Information from the table includes the zones, population category (residents, recreational, work force, and special facilities), evacuation times, and weekday/weeknight/weekend population numbers. Evacuation for all population categories would be complete between 140 –145 minutes including in adverse weather conditions.

### **Plan Reference**

State of Louisiana: LPRRP Attachments 1, 2, and 3

Tensas Parish: Attachment 2, Appendix D, Tab A



### **Criterion Evaluation**

State of Louisiana: **Adequate**

Tensas Parish: **Adequate**

### **Recommendation**

State of Louisiana: Consider updating ETE references to the most current ETE study that was conducted by the applicant and provided with the application for Unit 3.

- J.10.m The bases for the choice of recommended protective actions from the plume exposure pathway during emergency conditions. This shall include expected local protection afforded in residential units or other shelter for direct and inhalation exposure, as well as evacuation time estimates.

### **Criterion Statement**

State of Louisiana: Louisiana Peacetime Radiological Response Plan (LPRRP), January 2009 is adequate to meet the intent of criterion J.10.m. The referenced portions of the State plan describe the rationale for making recommendations to decision makers both initially and subsequently as the accident progresses.

Tensas Parish: Not Applicable

### **Plan Reference**

State of Louisiana: LPRRP Attachments 1, 2, and 3

Tensas Parish: Not Applicable

### **Criterion Evaluation**

State of Louisiana: **Adequate**

Tensas Parish: Not Applicable

- J.11 Each State shall specify the protective measures to be used for the ingestion pathway, including the methods for protecting the public from consumption of contaminated food-stuffs. This shall include criteria for deciding whether dairy animals should be put on stored feed. The plan shall identify procedures for detecting contamination, for estimating the dose commitment consequences of uncontrolled ingestion, and for imposing protection procedures such as impoundment, decontamination, processing, decay, product diversion, and preservation.

Maps for recording survey and monitoring data, key land use data (e.g., farming), dairies, food processing plants, water sheds, water supply intake and water treatment plants and reservoirs shall be maintained. Provisions for maps showing detailed crop information may be made by including reference to their availability and location and a plan for their use. The maps shall start at the facility and include the entire 50-mile ingestion pathway EPZ. Up-to-date lists of the name and location of all facilities which regularly process milk products and other large amounts of food or agricultural products originating in the ingestion pathway Emergency Planning Zone, but located elsewhere, shall be maintained.

### **Criterion Statement**

State of Louisiana: Louisiana Peacetime Radiological Response Plan (LPRRP), January 2009 is adequate to meet the intent of criterion J.11. The referenced portions of the State plan address the protective actions planned and the rationale for those actions. In addition, the plan identifies the agencies that will be responsible for developing protective actions. The plan also describes the methodology for sample collection, lab analysis and the Derived Intervention Levels that would warrant the implementation of protective actions. The plan describes how the State will obtain maps, such as those for land use.

Tensas Parish: This criterion is adequate. All IPZ Louisiana parishes and Mississippi Counties will be notified when an accident has occurred at the GGNS. LDEQ will directly notify Tensas Parish EOC and LHLS/EP will notify all other parishes of any protective response recommendations concerning food, water animal feed or livestock. EAS messages may be used to notify the agricultural communities on protection of livestock and crops. LDEQ and the Mississippi Board of Health will coordinate with local officials all sampling and monitoring activities in the IPZ.

Additional information related to determination of contamination in food and protective actions for foods, animal feeds confirmed to be contaminated are contained in the LPRRP, Chapter 8 as referenced in the chapter.

### **Plan Reference**

State of Louisiana: LPRRP Chapter 8, Tab 3

Tensas Parish: LPRRP Chapter 8; Attachment 2, Chapter 4

### **Criterion Evaluation**

State of Louisiana: **Adequate**

Tensas Parish: **Adequate**

- J.12 Each organization shall describe the means for registering and monitoring of evacuees at relocation centers in host areas. The personnel and equipment available should be capable of monitoring within about a 12-hour period all residents and transients in the plume exposure EPZ arriving at relocation centers.

**Criterion Statement**

State of Louisiana: Louisiana Peacetime Radiological Response Plan (LPRRP), January 2009 is adequate to meet the intent of criterion J.12. The State plan identifies the parish as the response organization that will provide the means for registering and monitoring evacuees within a twelve hour period. The plan identifies the actions level that will be used to trigger decontamination. Additional details are available in the parish procedures that describe facility layout and addresses temporary care.

Tensas Parish: This criterion is adequate – corrections must be made. The parish plan provides information to address the registration and monitoring of evacuees. The plan references decontamination procedures, contamination control measures which provides facility layout.

**Plan Reference**

State of Louisiana: LPRRP Chapter 9, Section IV. B

Tensas Parish: Attachment 2, Section IV, Chapter 5; Enclosure I, Section D.1.f, D.3, G.3 and H.1

**Criterion Evaluation**

State of Louisiana: **Adequate**

Tensas Parish: **Adequate**

- K. **Radiological Exposure Control Planning Standard:** Means for controlling radiological exposures, in an emergency, are established for emergency workers. The means for controlling radiological exposures shall include exposure guidelines consistent with EPA Emergency Worker and Lifesaving Activity Protective Action Guides.

**MISSISSIPPI**

**K. Evaluation: Adequate**

**K. Statement**

The State of Mississippi and Claiborne County has a provision for a 24-hour-per-day capability to determine the doses received by emergency personnel involved in any nuclear accident, including volunteers. The RAAO will evaluate total population and emergency worker exposure during the course of the incident and during recovery operations using the methodology described in EPA 520 and integrating the projected dose over the course of the incident. Provisions have been established for distribution of dosimeters, both self-reading and permanent record devices. Mississippi Emergency Management Agency has a provision for distribution of dosimeters, both self-reading and permanent record devices. Local emergency workers will be provided with dosimetry and other instruments/materials from local supplies and augmented by the state as needed. Each Self-Reading Dosimeter (SRD) is to be read every 30 minutes with readings recorded on the individuals Personal Radiation Exposure Card (REP-1).

MEMA has established the decision chain for authorizing emergency workers to incur exposures in excess of the EPA General Public Protective Action Guides. The PAG level for emergency workers is 5 Rem TEDE (whole body) and 25 Rem CDE to the thyroid. Authorization to exceed this limit will be obtained from the SHO/MSDH. All appropriate radiological exposure control measures will be implemented consistent with emergency worker training. If an emergency worker registers an exposure of 1R on the SRD, he shall be instructed to leave the risk area and immediately report to a designated decontamination location. 1R will be referred to as the Turn Back Value. Beyond the 25 Rem TEDE (whole body) or the 125 Rem CDE to the thyroid, emergency workers will be restricted to lifesaving missions and will be required to seek specific authorization from the SHO/MSDH to exceed this limit.

MEMA has specified action levels for determining the need for decontamination based on exceeding .1 mR/hr. Individuals who are contaminated need to be decontaminated. Only the area on the individual where contamination is found needs to be decontaminated. MEMA has established the means for radiological decontamination of emergency personnel wounds, supplies, instruments and equipment, and for waste disposal. The SEOC will arrange to have GGNS remove all contaminated clothing/materials. Contaminated items must be secured at the Reception Center until picked up by GGNS.

Provisions for the medical treatment of emergency workers will be made at River Region Health System Inc. Any emergency worker receiving an exposure of 1R on the SRD after completing the decontamination procedures shall have a whole body count performed at either Riverland Hospital location or designated ENTERGY Fixed Nuclear Facility site to determine any additional assessment of receiving significant exposure from internally deposited isotopes. Any emergency worker receiving a dose (TEDE) of 10 Rem or above may be instructed to seek medical treatment at the nearest available facility capable of dealing with radiation exposure cases.

Claiborne County has established procedures that dosimeters are read at appropriate frequencies and provide for maintaining dose records for emergency workers involved in any nuclear accident. Information contained in REP-1 will be transferred by the PG/CCCD Radiological Officer to the Permanent Radiation Exposure Record (REP-2) which will be submitted to the MSDH/DRH, which will be responsible for compiling the information and maintaining permanent records.

## **LOUISIANA**

### **K. Radiological Exposure Control**

Means for controlling radiological exposures, in an emergency, are established for emergency workers. The means for controlling radiological exposures shall include exposure guidelines consistent with EPA Emergency Worker and Lifesaving Activity Protective Action Guides.

- K.3.a Each organization shall make provision for 24-hour-per-day capability to determine the doses received by emergency personnel involved in any nuclear accident, including volunteers. Each organization shall make provisions for distribution of dosimeters, both self-reading and permanent record devices.

### **Criterion Statement**

State of Louisiana: Louisiana Peacetime Radiological Response Plan (LPRRP), January 2009 is adequate. The plan makes provisions to determine doses received by workers. The plan describes use of dosimetry, turn back values, and dosimetry distribution.

Tensas Parish: This criterion is adequate. Detailed information covering emergency workers exposure control is contained in Chapter 5 or cited as a reference (i.e. EPA 400 and LPRRP, Chapter 9). Emergency workers are briefed on exposure control procedures; EPA dose limits, TEDE; and issued dosimetry, TLDs, tracking forms and instructions. A "Resource Requirements for Radiological Exposure Control" list contains the equipment issued to EWs or designated for reception/decontamination centers. At the conclusion of an emergency, the Parish Radiological Officer is responsible for collecting all dosimetry.

### **Plan Reference**

State of Louisiana: LPRRP Chapter 6, Tab 3, Table 1; Chapter 9, Section III.A; Section V.B.1.a

Tensas Parish: Attachment 2, Section IV, Chapter 5

### **Criterion Evaluation**

State of Louisiana: **Adequate**

Tensas Parish: **Adequate**

- K.3.b Each organization shall ensure that dosimeters are read at appropriate frequencies and provide for maintaining dose records for emergency workers involved in any nuclear accident.

**Criterion Statement**

State of Louisiana: Louisiana Peacetime Radiological Response Plan (LPRRP), January 2009 is adequate.

Tensas Parish: This criterion is adequate. The parish plan provides information on how Emergency workers (EWs) are briefed on exposure control procedures, including reading and recording dosimetry readings on tracking forms, limitation of exposure, and reading dosimetry routinely throughout their participation. The Parish Radiological Officer is responsible for gathering radiological information and maintaining records.

**Plan Reference**

State of Louisiana: LPRRP Chapter 9, Section IV.B. 1.a

Tensas Parish: Attachment 2, Section IV, Chapter 5

**Criterion Evaluation**

State of Louisiana: **Adequate.**

Tensas Parish: **Adequate**

- K.4 Each State and local organization shall establish the decision chain for authorizing emergency workers to incur exposures in excess of the EPA General Public Protective Action Guides (i.e., EPA PAGs for emergency workers and lifesaving activities).

**Criterion Statement**

State of Louisiana: Louisiana Peacetime Radiological Response Plan (LPRRP), January 2009 is adequate. The State plan addresses the dose limits for emergency worker (EW) missions, describes actions to be taken when exposure limits have been reached, describes the procedures for obtaining authorization to exceed exposure limits, identifies the individual with the authority to authorize EWs to exceed exposure limits and references the method that the EWs will be advised of the potential risk of health effects for exceeding exposure limits. The plan also describes special limits that may apply to emergency workers such as those for pregnant emergency workers.

Tensas Parish: This criterion is adequate. The Police Jury President is responsible for authorizing EWs to incur exposures in excess of EPA guidelines, after consulting with LDEQ. Authorization of exposure greater than 5 rem TEDE will be consistent with EPA 400 guidelines.

Emergency workers are advised of risks and trained in the proper use of dosimetry, limitation of exposure, and use, administration, and precautions of KI.

### **Plan Reference**

State of Louisiana: LPRRP Chapter 9, Section V.B and V.D

Tensas Parish: Attachment 2, Section IV, Chapter 5

### **Criterion Evaluation**

State of Louisiana: **Adequate**

Tensas Parish: **Adequate**

- K.5.a Each organization as appropriate shall specify action levels for determining the need for decontamination.

### **Criterion Statement**

State of Louisiana: Louisiana Peacetime Radiological Response Plan (LPRRP), January 2009 is adequate. The referenced portions of the plan adequately address the level of contamination that triggers decontamination and survey instruments that will likely be used to monitor. The State plan does reference information in attachments describing the locations of monitoring facilities, procedures for controlling the spread of contamination and the specific procedures for monitoring individuals or equipment.

Tensas Parish: This criterion is adequate. The parish is responsible for establishing methods and procedures for protection of the general public and emergency workers from radiological exposure during an incident at the utility.

The plan states that reception centers will conduct monitoring and decontamination of both the general public and emergency workers. Three reception centers, outside the EPZ, are identified in the plan. Persons with readings of 0.1 mR/hr above background will be considered to be contaminated.

Contaminated supplies, instruments and equipment used by EWs will be stored at the reception centers until arrangements for proper surveillance, decontamination or disposal can be made.

Additional information can be located in the references cited throughout Chapter 5.

#### **Plan Reference**

State of Louisiana: LPRRP Chapter 9, Section III and IV; Attachments 1, 2, and 3

Tensas Parish: Attachment 2, Section IV, Chapter 5

#### **Criterion Evaluation**

State of Louisiana: **Adequate**

Tensas Parish: **Adequate**

- K.5.b Each organization, as appropriate, shall establish the means for radiological decontamination of emergency personnel wounds, supplies, instruments and equipment, and for waste disposal.

#### **Criterion Statement**

State of Louisiana: Louisiana Peacetime Radiological Response Plan (LPRRP) , January 2009 is adequate. The referenced portions of the State plan adequately address equipment needed for monitoring and decontamination of EWs. The referenced portions of the State plan also address the location of monitoring and decontamination facilities or decontamination of EWs.

Tensas Parish: This criterion is adequate. After emergency workers have been surveyed and decontaminated at a reception center, they will be transported to a medical facility for further treatment of wounds or contamination.

Contaminated supplies, instruments and equipment used by EWs will be stored at the reception centers until arrangements for proper surveillance, decontamination or disposal can be made. Tab A contains a list of survey equipment/log forms used for monitoring and decontamination of people, contaminated materials and vehicles. Contaminated items will be stored at these sites until cleaned or disposal can be arranged.

The Parish Radiological Officer is responsible for establishing arrangements for the surveying and decontamination of EWs and vehicles, and coordinating these efforts with LDEQ.

#### **Plan Reference**

State of Louisiana: LPRRP Chapter 9, Section V.C; Attachments 1, 2, and 3

Tensas Parish: Attachment 2, Section IV, Chapter 5, Tab A; Enclosure I, Section D



### **Criterion Evaluation**

State of Louisiana: **Adequate**

Tensas Parish: **Adequate**

- L. **Medical and Public Health Support Planning Standard:** Arrangements are made for medical services for contaminated injured individuals.<sup>1</sup>

### **MISSISSIPPI**

#### **L. Evaluation: Adequate**

#### **L. Statement**

The MREPP, Annex F Medical Services, identifies selected hospitals that provide medical services for treatment and care of contaminated injured individuals. Letters of Agreement have been obtained with the following hospitals; the Primary hospital, River Region Health System – Vicksburg, MS and the Backup Riverland Medical Center – Ferriday, LA for medical support in the event of a medical emergency at GGNS. Claiborne County’s Hospital, is listed as a secondary backup in the Claiborne County REP Plan. The Claiborne County REP Plan, has a graphic format to show radiation accident capabilities for River Region Medical Center, Riverland County Medical Center, and Claiborne County Hospital. The MREPP states that “several other hospital and ambulance services are capable of providing support” in the event primary and backup resources are exhausted. The letters of agreement are located in the Claiborne County REP Plan.

Government owned facilities are available to provide radiological emergency services. These services are available if the magnitude or uniqueness of a radiological incident exceeds in-house and commercially available capabilities. They include: Radiation Emergency Assistance Center Training Site (REACTS) Oak Ridge, TN; and National Disaster Medical System (NDMS) Rockville, MD.

Several other hospitals and ambulance services in Mississippi are capable of providing medical support for any contaminated injured individual from a fixed nuclear facility emergency in the event primary and backup resources

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<sup>1</sup> The availability of an integrated emergency medical services system and a public health emergency plan serving the area in which the facility is located and, as a minimum, equivalent to the Public Health Service Guide for Developing Health Disaster Plans, 1974, and to the requirements of an emergency medical services system as outlined in the Emergency Medical Services System Act of 1973 (PL 93-154 and amendments in the 1979 PL 96-142), should be a part of and consistent with overall State or local disaster control plans and should be compatible with the specific overall emergency response for the facility.

are exhausted. Letters of Agreement have been obtained with these facilities, but were not included in the review package.

The MREPP, Annex F, Appendix 10 does not include all of the listings that are included with the Claiborne County plan. There is no physical address for Riverland Medical Center listed. There is no listing of special radiological capabilities for any of the facilities, the ability for radiological monitoring of contaminated personnel, facilities and to care for contaminated injured persons. The MREPP Annex F, Appendix 10 does not list all of the ambulance capabilities as provided by the local jurisdictions.

The State (MEMA) has made arrangements with ambulance services to provide medical transportation for members of the general public who may be exposed to dangerous levels of radiation at GGNS. Letters of Agreement have been obtained with these organizations by MEMA. The primary ambulatory service is American Medical Response.

## **LOUISIANA**

### **L. Medical and Public Health Support**

Arrangements are made for medical services for contaminated injured individuals.

- L.1 Each organization shall arrange for local and backup hospital and medical services having the capability for evaluation of radiation exposure and uptake, including assurance that persons providing these services are adequately prepared to handle contaminated individuals.

### **Criterion Statement**

State of Louisiana: Louisiana Peacetime Radiological Response Plan (LPRRP), January 2009 is adequate. The State plan identifies a primary and back-up hospital for the Grand Gulf Nuclear Plant. The plan also identifies a list of letters of agreement (LOA) with the hospitals.

Tensas Parish: This criterion is adequate. Contaminated injured personnel will be treated at Riverland Medical Center primarily. The backup hospital is the Ochsner Foundation

### **Plan Reference**

State of Louisiana: LPRRP Chapter 10, Section IV.B and Tab 2; Attachments 1, 2, and 3

Tensas Parish: Enclosure I, Sections H.2; Appendix I-1

### **Criterion Evaluation**

State of Louisiana: **Adequate**

Tensas Parish: **Adequate**

- L.3 Each State shall develop lists indicating the location of public, private and military hospitals and other emergency medical services facilities within the State or contiguous States considered capable of providing medical support for any contaminated injured individual. The listing shall include the name, location, type of facility and capacity, and any special radiological capabilities. These emergency medical services should be able to radiologically monitor contamination personnel, and have facilities and trained personnel able to care for contaminated injured persons.

**Criterion Statement**

State of Louisiana: Louisiana Peacetime Radiological Response Plan (LPRRP) , January 2009 is adequate. The State plan provides a list of medical facilities and ambulance services within the state that are capable of treating a contaminated injured person.

Tensas Parish: Not Applicable

**Plan Reference**

State of Louisiana: LPRRP Chapter 10, Section IV.B; Tab 1 and 2

Tensas Parish: Not Applicable

**Criterion Evaluation**

State of Louisiana: **Adequate**

Tensas Parish: Not Applicable

- L.4 Each organization shall arrange for transporting victims of radiological accidents to medical support facilities.

**Criterion Statement**

State of Louisiana: Louisiana Peacetime Radiological Response Plan (LPRRP), January 2009 is adequate to meet the intent of criterion L.4

Tensas Parish: This criterion is adequate. Medical facilities and emergency transportation providers have been identified in the plan; in addition LOAs are listed in Appendix I-1, which was not provided as a reference. An ambulance service is used for medical treatment and transportation of individuals to the designated hospitals. They coordinate with local medical practitioners/hospitals and maintain communication with the Parish Sheriff's Office.

Parish key officials are responsible for coordinating with LDEQ, State Department of Health and Hospitals, utility and support agencies in developing and maintaining procedures for treatment and transportation of contaminated individuals. These procedures include but are not limited to training emergency workers on radiological monitoring and contamination control measures.

### **Plan Reference**

State of Louisiana: LPRRP Chapter 10, Section IV.A

Tensas Parish: Enclosure I, Sections D.1.h and H.2; Appendix I-1

### **Criterion Evaluation**

State of Louisiana: **Adequate**

Tensas Parish: **Adequate**

#### **M. Recovery and Reentry Planning and Post accident Operations Planning Standard:**

General plans for recovery and reentry are developed.

#### **MISSISSIPPI**

##### **M. Evaluation: Adequate**

##### **M. Statement**

MREPP Sections V.E.5 and VI.H discuss the general requirements for Recovery, Reentry, Return and Relocation. Depending upon offsite radiological conditions and acting upon the recommendation of the Mississippi Emergency Management Agency (MEMA) and Mississippi State Department of Health/Division of Radiological Health (MSDH/DRH) Directors, the Governor will direct reentry on either a long or short-term basis. After a thorough analysis by the MSDH/DRH, DOE and EPA, a determination will be made whether or not permanent return may be allowed or if relocation is warranted based upon long term projected doses. When Mississippi is informed by the GGNS that the event has terminated then the Radiological Accident Assessment Officer (RAAO) will verify that the incident has reached termination and recommend the initiation of recovery operations to the MEMA Director, who will notify each of the state and federal agencies and local governments responding to the incident. Additionally, the Emergency News Media Center (ENMC) will be notified of the status and the implementation of recovery operations. Reentry will be based on radiation levels according to EPA 400-R-92-001 guidelines. The Radiological Emergency Response Team Coordinator (RERTC) will initiate recovery operations surveys by the Radiological Emergency Response Team (RERT), supported by state and federal agencies with an assigned responsibility.

The RERT, in coordination with the Mississippi Department of Agriculture and Commerce (MDAC) will initiate surveys and environmental sampling of the affected areas using survey and sampling techniques prescribed by the RERTC. Results of these surveys will be forwarded to the RAAO for assessment and evaluation. Based on the assessments and evaluation, MEMA will be advised of recommended courses of action and, after consultation with the Governor's Office, will initiate public advisories through the ENMC. MEMA continues to be responsible for implementation of the required recommendations at the state level.

Claiborne County relies on the MSDH/DRH to collect and analyze samples and provide recommendations on relocation, reentry, and recovery to the highest elected official. Specific reentry authorizations will be made by the local elected officials. The Port Gibson/Claiborne County Radiological Emergency Response Plan Sections V.E.5 and VI.G state that depending upon offsite radiological conditions the Board of Supervisors and the Mayor of Port Gibson, acting upon the advice and recommendation of MEMA and the MSDH/DRH, will direct reentry operations on either a long or short term basis.

Once a radiological incident at GGNS is terminated and with the facility in a stable condition and no further offsite releases occurring or expected, the RAAO will verify that the incident has reached termination and recommend the initiation of recovery operations to the MEMA Director, who will notify each of the state and federal agencies and local governments responding to the incident. Additionally, the ENMC will be notified of the status and the implementation of recovery operations. MEMA continues to be responsible for implementation of the required recommendations at the state level.

The Port Gibson/Claiborne County Radiological Emergency Response Plan Annex H states that the MEMA Director will notify state, federal and Claiborne County governments and agencies responding to the incident of event termination and the commencement of recovery operations. Additionally, the ENMC will be notified of the status and the implementation of recovery operations.

The State of Mississippi is responsible for estimating total population exposure. The RAAO will evaluate total population and emergency worker exposure during the course of the incident and during recovery operations using the methodology described in EPA 400-R-92-001 and integrating the projected dose over the course of the incident. Claiborne County relies on the State DRH to collect and analyze samples and provide recommendations on relocation, reentry, and recovery.

## **LOUISIANA**

### **M. Recovery and Reentry Planning and Post-Accident Operations** General plans for recovery and reentry are developed.

#### **M.1 Each organization, as appropriate, shall develop general plans and procedures for reentry and recovery and describe the means by which decisions to relax protective measures**

(e.g., allow reentry into an evacuated area) are reached. This process should consider both existing and potential conditions.

### **Criterion Statement**

State of Louisiana: Peacetime Radiological Response Plan (LPRRP), January 2009 is adequate. The State plan addresses actions that will be taken with regard to recovery, relocation and reentry into effected areas. The plan describes the methods the State will use to make recommendations on the establishment of restricted areas, controlled reentry into those areas, relaxation of protective measures in effected areas and recovery actions taken by the State.

Tensas Parish: This criterion is adequate. The parish plan addresses actions that will be taken with regard to recovery, relocation and reentry into effected areas. The plan describes the methods the parish will use to make recommendations on the establishment of restricted areas, controlled reentry into those areas, relaxation of protective measures in effected areas and recovery actions taken by the parish.

### **Plan Reference**

State of Louisiana: LPRRP Chapter 11

Tensas Parish: LPRRP Chapter 11; Attachment 2, Chapter 6.B

### **Criterion Evaluation**

State of Louisiana: **Adequate**

Tensas Parish: **Adequate**

- M.3 Each licensee and State plan shall specify means for informing members of the response organizations that a recovery operation is to be initiated, and of any changes in the organizational structure that may occur.

### **Criterion Statement**

State of Louisiana: Louisiana Peacetime Radiological Response Plan (LPRRP), January 2009 is adequate to meet the intent of criterion M.3.

Tensas Parish: Not Applicable

### **Plan Reference**

State of Louisiana: LPRRP Chapter 11, Section III.E

Tensas Parish: Not Applicable

**Criterion Evaluation**

State of Louisiana: **Adequate**

Tensas Parish: Not Applicable

- M.4 Each plan shall establish a method for periodically estimating total population exposure.

**Criterion Statement**

State of Louisiana: Louisiana Peacetime Radiological Response Plan (LPRRP), January 2009 is adequate to meet the intent of criterion M.4.

Tensas Parish: Not Applicable

**Plan Reference**

State of Louisiana: LPRRP, Chapter 11, Section III.I

Tensas Parish: Not Applicable

**Criterion Evaluation**

State of Louisiana: **Adequate**

Tensas Parish: Not Applicable

- N. **Exercises and Drills Planning Standard:** Periodic exercises are (will be) conducted to evaluate major portions of emergency response capabilities, periodic drills are (will be) conducted to develop and maintain key skills, and deficiencies identified as a result of exercises or drills are (will be) corrected.

**MISSISSIPPI**

**N. Evaluation: Adequate**

**N. Statement**

Mississippi Emergency Management Agency (MEMA) and Claiborne County Civil Defense (CCCD) participate in full scale exercises at least every two years in conjunction with Grand Gulf Nuclear Station (GGNS); the scenarios are varied to ensure all major plan elements are tested within a six-year period. Annex L, Section II.D.2.a.-i.

The Mississippi Radiological Emergency Preparedness Plan (MREPP) establishes the process for establishing the objectives to be exercised and the extent of play to be utilized. Appendix 2 of the Annex outlines the organizations and objectives to be covered during the six year cycle of exercises in accordance with FEMA REP guidance. Designated representatives from federal, state and county governments observe and critique full-scale exercises. A critique is conducted at the conclusion of each exercise or drill to report on the quality of actual response as compared to planned response. The Federal Emergency Management Agency (FEMA) prepares a formal evaluation report and submits this to MEMA who uses the report as a foundation for a review, refinement and revision of the state and local Radiological Emergency Preparedness Plans.

Communications, Medical Emergency and Radiological Monitoring drills are conducted on a recurring basis by state and local offsite organizations. Communications drills are conducted to test both the adequacy of communications links and the response agency's understanding of emergency action levels and message content. Medical drills are conducted on an annual basis to ensure the adequacy of transportation and medical care for contaminated/injured individuals from the plume exposure pathway EPZ of GGNS. Radiological monitoring drills are conducted annually and include the collection and analysis of all sample media, such as water, vegetation, soil and air, and provision for communications and record keeping.

Paragraph a. of section II.D.5 of the MREPP lists participating agencies and determines the positions necessary to successfully demonstrate objectives from the extent of play (EOP). Paragraph b. establishes notification procedures for CCCD and MEMA. A portion of Annex L D.2.f states: Activities that will be simulated and the extent of simulation should be carefully laid out and agreed upon during the development of the extent of play. Major tasks in the development, conduct and evaluation of an exercise are: Establish exercise date; establish objectives and general extent of play; establish scenario; arrange logistics; establish controller organization; develop detailed play organization; arrange support and prepare controller/evaluator briefing. The section contains five subsections which contain the information necessary to conduct the drill/exercise. Annex L discusses the types of exercises/drills and Appendices 1-3 discuss in more detail the means of preparing and managing the exercise development and extent of play. All major elements of the plan must be tested within a six year period.

Section II.A.1.b discusses the critique conducted at the conclusion of each exercise and/or drill. Section D.8.d and e. discuss written narratives of exercise performance and establishing a schedule for accomplishing any needed corrective actions along with a tracking system to assure completion of items. Lastly, an activity summary will be prepared, indicating the controller's view of the activity and whether or not any deficiencies, Areas Recommended for Corrective Action or areas Recommended for Improvement were observed in accordance with Annex L, Section II.D.8.c.



Radiological response drills and exercises are designed and conducted to test the adequacy of coordination and content of radiological emergency preparedness plans and procedures. Drills and exercises include selected mobilization of MEMA and CCCD personnel and resources adequate to verify the offsite response capabilities to an accident. Annex L.II.B discusses the responsibilities of Claiborne County, MEMA and the Mississippi State Department of Health/Division of Radiological Health.

MEMA has the responsibility of coordinating the exercise schedule and participation with state agencies, and GGNS; and for the preparation for exercises and drills. Appendix 2 of Annex L, County REP Plan contains a matrix of the criterion and locations which will demonstrate that criterion. Also contained is another matrix which indicates timeframes and types of exercises held which enables the tracking of all necessary elements of the exercises; while Appendix 1 discusses the simulation of exercise and defines demonstration simulation. The Claiborne County Plan Annex L tasks the State with the functions of providing advance materials to official observers/evaluators.

## **LOUISIANA**

### **N. Exercises and Drills**

Periodic exercises are (will be) conducted to evaluate major portions of emergency response capabilities, periodic drills are (will be) conducted to develop and maintain key skills, and deficiencies identified as a result of exercises or drills are (will be) corrected.

#### **N.1.a An exercise is an event that tests the integrated capability and a major portion of the basic elements existing within emergency preparedness plans and organizations.**

The emergency preparedness exercise shall simulate an emergency that results in offsite radiological releases that would require response by offsite authorities. Exercises shall be conducted as set forth in NRC and FEMA rules.

### **Criterion Statement**

State of Louisiana: Louisiana Peacetime Radiological Response Plan (LPRRP), January 2009 is adequate to meet the intent of criterion N.1.a.

Tensas Parish: This criterion is adequate. The State, in conjunction with the parish and utility, will develop drill and exercise scenarios based on NRC and FEMA guidance.

### **Plan Reference**

State of Louisiana: LPRRP Chapter 13, Section III.A

Tensas Parish: LPRRP, Chapter 13, Section III.A; Attachment 2, Section IV, Chapter 7.B

### **Criterion Evaluation**

State of Louisiana: **Adequate**

Tensas Parish: **Adequate**

- N.1.b An exercise shall include mobilization of State and local personnel and resources adequate to verify the capability to respond to an accident scenario requiring response. The organization shall provide for a critique of the annual [now: biennial] exercise by Federal and State observers/evaluators. The scenario should be varied from year to year [now: from exercise to exercise] such that the major elements of the plans and preparedness organizations are tested within a five year [now: six-year] period. Each organization should make provisions to start an exercise between 6:00 p.m. and midnight, and another between midnight and 6:00 a.m. [now: between 6:00 p.m. and 4:00 a.m. once every six years]. Exercises should be conducted [during different seasons of the year within a six-year period for exercising] under various weather conditions. Some exercises [now: at least one exercise over a period of six years] should be unannounced.

### **Criterion Statement**

State of Louisiana: Peacetime Radiological Response Plan (LPRRP), January 2009 is adequate. The plan describes the frequency and conditions under which ingestion phase exercise will occur including provisions for off-hour and unannounced drills and varying weather conditions.

Tensas Parish: This criterion is adequate.

Full participation exercises are when sufficient numbers of State and local government personnel are engaged to verify the capability to respond to and test the State/local emergency plans during a radiological accident. Exercise and drill scenarios will be designed to allow free-play for decision makers and will include the following criteria:

- Basic objectives, date(s), duration, location(s), and participating organizations/individuals;
- Events/items to be simulated;
- Time schedule of real and simulated initiating events; and  
A narrative summary describing the conduct of the exercise/drill(s) (i.e. simulated casualties, offsite fire department assistance, rescue of personnel, use of PPE, FMT deployment, and public information). A RAI, described in the section below, will be provided to the applicant.

### **Plan Reference**

State of Louisiana: LPRRP, Chapter 13, Section. III.A

Tensas Parish: LPRRP, Chapter 13, Section III.A; Attachment 2, Section IV, Chapter 7.B

### **Criterion Evaluation**

State of Louisiana: **Adequate**

Tensas Parish: **Adequate**

#### **N.2.a Communications Drills**

Communications with State and local governments within the plume exposure pathway Emergency Planning Zone shall be tested monthly. Communications with Federal emergency response organizations and States within the ingestion pathway shall be tested quarterly. Communications between the nuclear facility, State and local emergency operations centers, and field assessment teams shall be tested annually. Communication drills shall also include the aspect of understanding the content of messages.

### **Criterion Statement**

State of Louisiana: Louisiana Peacetime Radiological Response Plan (LPRRP), January 2009 is adequate to meet the intent of criterion N.2.a.

Tensas Parish: This criterion is adequate. The plan provides that drills will test the communication links and the response agencies understanding of emergency classifications and message content. Communications between the utility, parish and State will be tested weekly. Communications with Federal response organizations and States (Louisiana and Mississippi) within the Ingestion Exposure Pathway will be tested quarterly.

### **Plan Reference**

State of Louisiana: LPRRP Chapter 13, Section IV.A

Tensas Parish: LPRRP Chapter 13, Section IV.A; Attachment 2, Section IV, Chapter 7.B

### **Criterion Evaluation**

State of Louisiana: **Adequate**

Tensas Parish: **Adequate**

#### **N.2.c Medical Emergency Drills**

A medical emergency drill involving a simulated contaminated individual who contains provisions for participation by the local support services agencies (i.e., ambulance and offsite medical treatment facility) shall be conducted annually. The offsite portions of the medical drill may be performed as part of the required annual [now: biennial] exercise.

### **Criterion Statement**

State of Louisiana: Not Applicable

Tensas Parish: This criterion is adequate. Medical drills involving the designated primary hospital and local support services will be conducted annually. These drills will involve the transportation and treatment of a simulated contaminated injured individual. During biennial exercises, relocation centers are activated and the capability to direct “contaminated injured” members of the general public to the designated hospitals will also be tested.

### **Plan Reference**

State of Louisiana: Not Applicable

Tensas Parish: Attachment 2, Section IV, Chapter 7.B

### **Criterion Evaluation**

State of Louisiana: Not Applicable

Tensas Parish: **Adequate**

#### N.2.d **Radiological Monitoring Drills**

Plant environs and radiological monitoring drills (onsite and offsite) shall be conducted annually.

These drills shall include collection and analysis of all sample media (e.g., water, vegetation, soil and air), and provisions for communications and record keeping. The State drills need not be at each site, where appropriate, local organizations shall participate.

### **Criterion Statement**

State of Louisiana: Louisiana Peacetime Radiological Response Plan (LPRRP), January 2009 is adequate to meet the intent of criterion N.2.d. The plan includes provisions for annual radiological monitoring drills.

Tensas Parish: This criterion is adequate. Radiological drills are conducted annually. The parish will participated as requested with the State and Entergy Operations Inc. on the drills held for the utility.

### **Plan Reference**

State of Louisiana: LPRRP Chapter 13, Section IV.B

Tensas Parish: LPRRP Chapter 13, Section IV.C; Attachment 2, Section IV, Chapter 7.B

**Criterion Evaluation**

State of Louisiana: **Adequate**

Tensas Parish: **Adequate**

N.2.e **Health Physics Drills**

(1) Health physics drills shall be conducted semi-annually which involve response to, and analysis of, simulated elevated airborne and liquid samples and direct radiation measurements in the environment. The State drills need not be at each site.

**Criterion Statement**

State of Louisiana: Louisiana Peacetime Radiological Response Plan (LPRRP), January 2009 is adequate to meet the intent of criterion N.2.e.

Tensas Parish: Not Applicable

**Plan Reference**

State of Louisiana: LPRRP Chapter 13, Section IV.C

Tensas Parish: Not Applicable

**Criterion Evaluation**

State of Louisiana: **Adequate**

Tensas Parish: Not Applicable

N.3 Each organization shall describe how exercises and drills are to be carried out to allow free play for decision-making and to meet the following objectives. Pending the development of exercise scenarios and exercise evaluation guidance by the NRC and FEMA the scenarios for use in exercises and drills shall include, but not be limited to, the following:

N.3.a The basic objective(s) of each drill and exercise and appropriate evaluation criteria

**Criterion Statement**

State of Louisiana: Louisiana Peacetime Radiological Response Plan (LPRRP), January 2009 is adequate to meet the intent of criterion N.3.a.

Tensas Parish: This criterion is adequate to meet the intent of this criterion.

**Plan Reference**

State of Louisiana: LPRRP Chapter 13, Section V

Tensas Parish: LPRRP Chapter 13, Section V; Attachment 2, Section IV, Chapter 7.B

**Criterion Evaluation**

State of Louisiana: **Adequate**

Tensas Parish: **Adequate**

N.3.b The date(s), time period, place(s), and participating organizations;

**Criterion Statement**

State of Louisiana: Louisiana Peacetime Radiological Response Plan (LPRRP), January 2009 is adequate to meet the intent of criterion N.3.b

Tensas Parish: This criterion is adequate. The plan states that exercise and drill scenarios will include the dates, duration, locations and participating organizations and/or individuals.

**Plan Reference**

State of Louisiana: LPRRP Chapter 13, Section V

Tensas Parish: LPRRP Chapter 13, Section V; Attachment 2, Section IV, Chapter 7.B

**Criterion Evaluation**

State of Louisiana: **Adequate**

Tensas Parish: **Adequate**

N.3.c The simulated events;

**Criterion Statement**

State of Louisiana: Louisiana Peacetime Radiological Response Plan (LPRRP), January 2009 is adequate to meet the intent of criterion N.3.c.

Tensas Parish: This criterion is adequate. The plan states that exercise and drill scenarios will include the events and/or items to be simulated.

**Plan Reference**

State of Louisiana: LPRRP Chapter 13, Section V

Tensas Parish: LPRRP Chapter 13, Section V; Attachment 2, Section IV, Chapter 7.B

**Criterion Evaluation**

State of Louisiana: **Adequate**

Tensas Parish: **Adequate**

N.3.d A time schedule of real and simulated initiating events;

**Criterion Statement**

State of Louisiana: Louisiana Peacetime Radiological Response Plan (LPRRP), January 2009 is adequate to meet the intent of criterion N.3.d.

Tensas Parish: This criterion is adequate. The plan states that exercise and drill scenarios will include a time schedule of real and simulated initiating events.

**Plan Reference**

State of Louisiana: LPRRP Chapter 13, Section V

Tensas Parish: LPRRP Chapter 13, Section V; Attachment 2, Section IV, Chapter 7.B

**Criterion Evaluation**

State of Louisiana: **Adequate**

Tensas Parish: **Adequate**

N.3.e A narrative summary describing the conduct of the exercises or drills to include such things as simulated casualties, offsite fire department assistance, rescue of personnel, use of protective clothing, deployment of radiological monitoring teams, and public information activities;

### **Criterion Statement**

State of Louisiana: Louisiana Peacetime Radiological Response Plan (LPRRP), January 2009 is adequate to meet the intent of criterion N.3.e

Tensas Parish: This criterion is adequate. The plan states that scenarios will include the 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 PPE, etc. .

### **Plan Reference**

State of Louisiana: LPRRP Chapter 13, Section V

Tensas Parish: LPRRP Chapter 13, Section V; Attachment 2, Section IV, Chapter 7.B

### **Criterion Evaluation**

State of Louisiana: **Adequate**

Tensas Parish: **Adequate**

- N.3.f. A description of the arrangements for and advance materials to be provided to official observers.

### **Criterion Statement**

State of Louisiana: Louisiana Peacetime Radiological Response Plan (LPRRP), January 2009 is adequate to meet the intent of criterion N.3.f.

Tensas Parish: This criterion is adequate.

### **Plan Reference**

State of Louisiana: LPRRP Chapter 13, Section V

Tensas Parish: LPRRP Chapter 13, Section V; Attachment 2, Section IV, Chapter 7.B

### **Criterion Evaluation**

State of Louisiana: **Adequate**

Tensas Parish: **Adequate**

LPRRP Chapter 13, Section V; Attachment 2, Section IV, Chapter 7.B



- N.4 Official observers from Federal, State or local governments will observe, evaluate, and critique the required exercises. A critique shall be scheduled at the conclusion of the exercise to evaluate the ability of organizations to respond as called for in the plan. The critique shall be conducted as soon as practicable after the exercise, and a formal evaluation should result from the critique.

**Criterion Statement**

State of Louisiana: Louisiana Peacetime Radiological Response Plan (LPRRP), January 2009 is adequate to meet the intent of criterion N.4. Information on the participation of official observers from Federal, State, and local levels who will evaluate and critique required exercises is appropriately addressed.

Tensas Parish: This criterion is adequate. The plan states that Federal, State and parish governments will observe, evaluate and critique exercises and drills. Formal evaluations will be prepared by FEMA. A critique will be conducted at the conclusion of each exercise.

**Plan Reference**

State of Louisiana: LPRRP, Chapter 13, Section III.D

Tensas Parish: LPRRP, Chapter 13, Section III.D; Attachment 2, Section IV, Chapter 7.B

**Criterion Evaluation**

State of Louisiana: **Adequate**

Tensas Parish: **Adequate**

- N.5 Each organization shall establish means for evaluating observer and participant comments on areas needing improvement, including emergency plan procedural changes, and for assigning responsibility for implementing corrective actions. Each organization shall establish management control used to ensure that corrective actions are implemented.

**Criterion Statement**

State of Louisiana: Louisiana Peacetime Radiological Response Plan (LPRRP), January 2009 is adequate to meet the intent of criterion N.5. The plan describes the method used to ensure that comments on areas needing improvement are carried forward in corrective actions.

Tensas Parish: This criterion is adequate. Parish governments, in conjunction with LDEQ and LHLS/EP, will review parish plans and implementing procedures to resolve deficiencies based on exercise critiques and evaluations.

### **Plan Reference**

State of Louisiana: LPRRP, Chapter 13, Section III.E

Tensas Parish: LPRRP, Chapter 13, Section III.D; Attachment 2, Section IV, Chapter 7.B

### **Criterion Evaluation**

State of Louisiana: **Adequate**

Tensas Parish: **Adequate**

- O. **Radiological Emergency Response Training Planning Standard:** Radiological emergency response training is provided to those who may be called on to assist in an emergency.

## **MISSISSIPPI**

### **O. Evaluation: Adequate**

#### **O. Statement**

The MREPP Section VII. Training, Part A. states radiological emergency preparedness training is designed to develop and maintain the knowledge and skills for emergency response personnel to respond effectively to an emergency. The training program includes initial training, procedural training, drills and continuing or refresher training. The training program is conducted within the policies of MEMA and is an ongoing function. Annex K.II. Concept of Operations, Part A and Part B. states general training for response personnel is designed to enhance comprehension of radiological emergency response plans and to orient personnel to their specific response functions in relation to the overall protective actions. MEMA coordinates with the MSDH/DRH to provide for the training of personnel who implement the Mississippi Radiological Emergency Preparedness Plan (MRERP). The REP Training Coordinator initiates and coordinates an ongoing training program in support of this plan and carries out this responsibility in coordination with the REP Program Manager.

Annex K.II. Concept of Operations, Part B.b. states MSDH/DRH supports the development of and conducts radiological response training and provides technical guidance and assistance. MSDH/DRH trains the RERT personnel including the support members. MEMA and MSDH/DRH Support each other's training activities. MREPP, Annex K. Appendix 2, contains detailed Course Descriptions, Section I Federal Level, list the following specialized training courses for Directors or Coordinators: Radiological Emergency Preparedness Exercise, Radiological Emergency Preparedness Planning, Radiological Accident Assessment Concepts (RAAC), and Radiological Emergency Response Operations (RERO) a practical drills course which teaches response and management of radiological incidents, including on-scene radiological monitoring, procedures for radiation exposure and contamination control, accident victim rescue and care techniques, and reporting procedures for first responders.

MREPP, Annex D., Accident Assessment, Section II.D. Training, Part D.1. states training for local government in the use of radiation detection equipment will be coordinated through MEMA. Radiological emergency preparedness training is designed to develop and maintain the knowledge and skills for emergency response personnel to respond effectively to an emergency. The training program for county and city personnel include initial training and procedural training. This training is periodically supplemented by drills, exercises, and continuing or refresher training. The training program is conducted within the policies of MEMA, Port Gibson/ Claiborne County Civil Defense, and is an ongoing function. The following groups of Claiborne County personnel receive Initial, Procedural, and Continuing Training: Police, security and fire fighting personnel; Repair and damage control/correctional action teams (onsite); First aid and rescue personnel; Local support services personnel including Civil Defense/Emergency Service personnel; Medical support personnel; and Personnel responsible for transmission of emergency information and instructions. Each organization shall provide for the initial and annual retraining of personnel with emergency response responsibilities. Training schedules will be coordinated between the PG/CCCD Director, MEMA and appropriate county and city agencies and private sector organizations no later than 30 days prior to the beginning of the calendar quarter in which the training will take place. GGNS provides training for hospital staff in support of the Mississippi Radiological Emergency Preparedness Plan. GGNS also provides support training for transportation personnel in support of this plan.

## **LOUISIANA**

- O. Radiological Emergency Response Training  
Radiological emergency response training is provided to those who may be called on to assist in an emergency.
- O.1 Each organization shall assure the training of appropriate individuals.
- O.1.b Each offsite response organization shall participate in and receive training.

Where mutual aid agreements exist between local agencies such as fire, police, and ambulance/rescue, the training shall be offered to the other departments that are members of the mutual aid district.

#### **Criterion Statement**

State of Louisiana: Louisiana Peacetime Radiological Response Plan (LPRRP), January 2009 is adequate to meet the intent of criterion O.1.b.

Tensas Parish: This criterion is adequate. Through a combined effort with Entergy Operations, Inc., LDEQ, and LHLS/EP a Radiological Response Training Program, will be implemented for, the Tensas Parish emergency response personnel (i.e., hospital staff, ambulance/rescue workers, sheriff/fire department personnel).

#### **Plan Reference**

State of Louisiana: LPRRP, Chapter 12, Section III.A

Tensas Parish: Attachment 2, Section IV, Chapter 8.B

#### **Criterion Evaluation**

State of Louisiana: **Adequate**

Tensas Parish: **Adequate**

- O.4 Each organization shall establish a training program for instructing and qualifying personnel who will implement radiological emergency response plans. The specialized initial training and periodic retraining programs (including the scope, nature, and frequency) shall be provided in the following categories:
- O.4.a Directors or coordinators of the response organizations;

#### **Criterion Statement**

State of Louisiana: Louisiana Peacetime Radiological Response Plan (LPRRP) , January 2009 is adequate to meet the intent of criterion O.4.a The State plan describes the applicable training programs specific to directors and coordinators including the scope of this training and also identifies the intervals at which the training will occur and the organizations that will provide the training.

Tensas Parish: This criterion is adequate. LDEQ and LHLS/EP will provide 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.

In addition, mini-training sessions on detailed procedural aspects of the radiological emergency preparedness program will be conducted on an 'as needed' basis with the Emergency Preparedness Coordinator and member of the EOC staff, who are the support staff to the parish elected officials.

#### **Plan Reference**

State of Louisiana: LPRRP, Chapter 12, Section III

Tensas Parish: Attachment 2, Section IV, Chapter 8.B

#### **Criterion Evaluation**

State of Louisiana: **Adequate**

Tensas Parish: **Adequate**

O.4.b Personnel responsible for accident assessment;

#### **Criterion Statement**

State of Louisiana: Louisiana Peacetime Radiological Response Plan (LPRRP), January 2009 is adequate to meet the intent of criterion O.4.b. The State plan describes the applicable training programs specific to accident assessment, including the scope of this training, identifies the intervals at which the training will occur and the organizations that will provide the training.

Tensas Parish: This criterion is adequate. Tensas Parish will designate appropriate parish personnel to attend the FEMA and DOE training courses for various aspects of radiological emergency planning, assessment, response and technical training.

#### **Plan Reference**

State of Louisiana: LPRRP, Chapter 12, Section III

Tensas Parish: General Plan, Section IV, Chapter 8

#### **Criterion Evaluation**

State of Louisiana: **Adequate**

Tensas Parish: **Adequate**

O.4.c Radiological monitoring teams and radiological analysis personnel;

### **Criterion Statement**

State of Louisiana: Louisiana Peacetime Radiological Response Plan (LPRRP) , January 2009 is adequate to meet the intent of criterion O.4.c The State plan describes the applicable training programs specific to radiological monitoring teams, includes the scope of this training, identifies the intervals at which the training will occur and the organizations that will provide the training.

Tensas Parish: This criterion is adequate. Tensas Parish will designate appropriate parish personnel to attend the FEMA and DOE training courses for various aspects of radiological emergency planning, assessment, response and technical training.

### **Plan Reference**

State of Louisiana: LPRRP, Chapter 12, Section III

Tensas Parish: General Plan, Section IV, Chapter 8

### **Criterion Evaluation**

State of Louisiana: **Adequate**

Tensas Parish: **Adequate**

O.4.d Police, security, and fire-fighting personnel;

### **Criterion Statement**

State of Louisiana: Louisiana Peacetime Radiological Response Plan (LPRRP), January 2009 is adequate to meet the intent of criterion O.4.d.

The State plan describes the applicable training programs specific to police, security and fire-fighting personnel, including the scope of this training and identifies the intervals at which the training will occur and the organizations that will provide the training.

Tensas Parish: This criterion is adequate. Emergency response personnel who will conduct activities within the EPZ will be provided training on radiological exposure control including 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 KI.

### **Plan Reference**

State of Louisiana: LPRRP, Chapter 12, Section III

Tensas Parish: General Plan, Section IV, Chapter 8

**Criterion Evaluation**

State of Louisiana: **Adequate**

Tensas Parish: **Adequate**

O.4.f First aid and rescue personnel;

**Criterion Statement**

State of Louisiana: Louisiana Peacetime Radiological Response Plan (LPRRP) , January 2009 is adequate to meet the intent of criterion O.4.f. The State plan describes the applicable training programs specific to first aid and rescue personnel, including the scope of this training and identifies the intervals at which the training will occur and the organizations that will provide the training.

Tensas Parish: This criterion is adequate. Training for emergency services personnel will be provided by the utility. It will include procedures for notification, basic radiation protection and the specific roles of each support organization. Transportation providers will receive basic training in contamination control.

For personnel who will be entering the plant, training will include access procedures and the onsite individual to whom they would report for coordination of the support activities onsite.

**Plan Reference**

State of Louisiana: LPRRP, Chapter 12, Section III

Tensas Parish: General Plan, Section IV, Chapter 8

**Criterion Evaluation**

State of Louisiana: **Adequate**

Tensas Parish: **Adequate**

O.4.g Local support services personnel including Civil Defense/Emergency Service personnel

### **Criterion Statement**

State of Louisiana: Louisiana Peacetime Radiological Response Plan (LPRRP), January 2009 is adequate to meet the intent of criterion O.4.g. The State plan describes the applicable training programs specific to emergency preparedness personnel, includes the scope of this training, identifies the intervals at which the training will occur and the organizations that will provide the training.

Tensas Parish: LDEQ and LHLS/EP will provide training on implementation of the radiological emergency response plans for the following local emergency support services personnel and organizations:

- Sheriff Department and Fire Department personnel;
- Security personnel;
- Medical support personnel;
- Communications and transportation personnel;
- Mutual Aid organizations; and
- First aid and rescue personnel not trained by the 'utility Directed' program.

The Training Program includes an overview of the radiological emergency response plans, including the utility, State and parish plans and procedures; basic and specific information on radiation and radiation protection; initial and periodic training for hospitals to provide medical support for "contaminated injured" personnel; and basic training in contamination control for transportation providers.

After initial training is conducted, retraining of personnel will be accomplished on an annual basis. The scope of the retraining program will emphasize new material and reinforcement of original information.

### **Plan Reference**

State of Louisiana: LPRRP, Chapter 12, Section III

Tensas Parish: General Plan, Section IV, Chapter 8

### **Criterion Evaluation**

State of Louisiana: **Adequate**

Tensas Parish: **Adequate**

O.4.h Medical support personnel;



### **Criterion Statement**

State of Louisiana: Louisiana Peacetime Radiological Response Plan (LPRRP), January 2009 is adequate to meet the intent of criterion O.4.h. The State plan describes the applicable training programs specific to medical support personnel, includes the scope of this training, identifies the intervals at which the training will occur and the organizations that will provide the training.

Tensas Parish: This criterion is adequate. In addition to the basic training on the overview of the radiological emergency response plans, medical support personnel will receive basic and specific information on radiation and radiation protection; initial and periodic training for hospitals to provide medical support for “contaminated injured” personnel; and basic training in contamination control for transportation providers.

After initial training is conducted, retraining of personnel will be accomplished on an annual basis. The scope of the retraining program will emphasize new material and reinforcement of original information.

### **Plan Reference**

State of Louisiana: LPRRP, Chapter 12, Section III

Tensas Parish: General Plan, Section IV, Chapter 8

### **Criterion Evaluation**

State of Louisiana: **Adequate**

Tensas Parish: **Adequate**

O.4.j. Personnel responsible for transmission of emergency information and instructions.

### **Criterion Statement**

State of Louisiana: Louisiana Peacetime Radiological Response Plan (LPRRP), January 2009 is adequate to meet the intent of criterion O.4.j. The State plan describes the applicable training programs specific to communications personnel, includes the scope of this training, identifies the intervals at which the training will occur and the organizations that will provide the training.

Tensas Parish: The parish plan is adequate to meet the intent of criterion O.4.j. In addition to the basic training on the overview of the radiological emergency response plans, personnel responsible for transmission of emergency information will receive basic and specific information on radiation and radiation protection; and more specific training on individual organization responsibilities and function.

After initial training is conducted, retraining of personnel will be accomplished on an annual basis. The scope of the retraining program will emphasize new material and reinforcement of original information.

#### **Plan Reference**

State of Louisiana: LPRRP, Chapter 12, Section III

Tensas Parish: General Plan, Section IV, Chapter 8

#### **Criterion Evaluation**

State of Louisiana: **Adequate**

Tensas Parish: **Adequate**

- O.5 Each organization shall provide for the initial and annual retraining of personnel with emergency response responsibilities.

#### **Criterion Statement**

State of Louisiana: Louisiana Peacetime Radiological Response Plan (LPRRP), January 2009 is adequate to meet the intent of criterion O.5. The State plan provides for a retraining program to occur annually.

Tensas Parish: This criterion is adequate. The plan states that after initial training is conducted by the utility, LDEQ or LHLS/EP, retraining of personnel will be accomplished on an annual basis. The scope of the retraining program will emphasize new material and reinforcement of original information.

#### **Criterion Plan Reference**

State of Louisiana: LPRRP, Chapter 12, Section III

Tensas Parish: General Plan, Section III.H

#### **Criterion Evaluation**

State of Louisiana: **Adequate**

Tensas Parish: **Adequate**

- P. **Responsibility for the Planning Effort:** Development, Periodic Review and Distribution of Emergency Plans Planning Standard: Responsibilities for plan development and review and for distribution of emergency plans are established, and planners are properly trained.

## MISSISSIPPI

### P. Evaluation: Adequate

#### P. Statement

As noted in Annex K of the Mississippi Radiological Emergency Response Plan (MREPP), the REP Program Manager will coordinate with the MSDH/DRH to provide for the training of personnel who implement the Mississippi Radiological Emergency Preparedness Plan. The REP Training Coordinator initiates and coordinates an ongoing training program in support of this plan and carries out this responsibility in coordination with the REP Program Manager.

The Mississippi Emergency Management Agency (MEMA) is responsible for the development and maintenance of the Mississippi Radiological Emergency Preparedness Plan (MREPP). The Director of MEMA has the overall authority and responsibility for radiological emergency response planning. The MEMA REP Program Manager has the responsibility for the development and updating of the radiological emergency plan, and coordination of this plan with the other response organizations. All State Agencies and local organizations with responsibilities under this plan will submit supporting plans and procedures to MEMA for review and approval. Each agency/organization is responsible for ensuring that their plan and procedures are reviewed and updated annually.

All changes/updates are to be submitted to MEMA for review and comment. MEMA coordinates all revision efforts and ensures that an annual review of the MREPP and individual MREPP support plans are conducted by all involved agencies. For the MREPP to be effective, its contents must be known and understood by those who are responsible for its implementation. The plans provided for review contain the following: lists of organizations and individuals as well as the number of plans and updates provided to organization or individual; lists of supporting plans and their sources; and lists of all implementing procedures associated with the plan.

The State of Mississippi and Claiborne County plans provided for review both have a Table of Contents and a cross-referencing table to NUREG-0654 criteria. MEMA is the emergency planning coordinator with designated responsibility for the development and updating of emergency plans and coordination with federal and local agencies. MEMA is also, the lead State Agency for overall coordination of emergency communications for Fixed Nuclear Facility (FNF) emergency response.

Commercial telephone lines and dedicated telephone circuits will be the primary means of emergency communications, and a satellite telephone/radio system will be the backup means of emergency communications for coordination of a response to a FNF emergency. The MEMA Director is responsible for the overall operation of the SEOC and for providing adequate communications to direct and coordinate the response upon initiation of the MREPP.

The quarterly update of emergency telephone numbers for response organization shall be done by the Claiborne County Civil Defense (CCCD) Communication Officer. The Port Gibson/Claiborne County Civil Defense (PG/CCCD) is responsible for ensuring first responders are scheduled and attend emergency response training for duties related to FNF emergency response. PG/CCCD Emergency Planning Coordinator has the overall authority and responsibility for radiological emergency response planning. Training of the Director and staff for this responsibility is assigned in accordance with the requirements of the County and City Governments, MEMA, and FEMA as specified in Annex K of the PG/CCRERP.

## **LOUISIANA**

- P. Responsibility for the Planning Effort: Development, Periodic Review and Distribution of Emergency Plans Responsibilities for plan development and review and for distribution of emergency plans are established, and planners are properly trained.
- P.1 Each organization shall provide for the training of individuals responsible for the planning effort.

### **Criterion Statement**

State of Louisiana: Louisiana Peacetime Radiological Response Plan (LPRRP), January 2009 is adequate to meet the intent of criterion P.1. The State plan provides for training to those individuals responsible for the planning effort.

Tensas Parish: Attachment 2 of the Louisiana Peacetime Radiological Response Plan, January 2009 is adequate. Attachment 2 of the LPRRP makes provisions for training individuals responsible for the planning effort in Attachment 2, General Plan, Section IV, Chapter 8.

### **Plan Reference**

State of Louisiana: LPRRP, Chapter 12, Section IV

Tensas Parish: Attachment 2, Section IV, Chapter 8

### **Criterion Evaluation**

State of Louisiana: **Adequate**

Tensas Parish: **Adequate**

- P.2 Each organization shall identify by title the individual with the overall authority and responsibility for radiological emergency response planning.

### **Criterion Statement**

State of Louisiana: Louisiana Peacetime Radiological Response Plan (LPRRP), January 2009 is adequate to meet the intent of criterion P.2. The State plan identifies by organizations and title the individual with overall authority and responsibility for radiological emergency response planning.

Tensas Parish: Attachment 2 of the Louisiana Peacetime Radiological Response Plan, January 2009 is adequate to meet the intent of criterion P.2. Attachment 2 LPRRP designates the Tensas Parish Police Jury President as the overall authority and responsibility for radiological emergency response planning.

### **Plan Reference**

State of Louisiana: LPRRP, Basic Plan, Section V.B

Tensas Parish: Attachment 2, Enclosure 1, Section D. 1.a

### **Criterion Evaluation**

State of Louisiana: **Adequate**

Tensas Parish: **Adequate**

- P.3 Each organization shall designate an Emergency Planning Coordinator with responsibility for the development and updating of emergency plans and coordination of these plans with other response organizations.

### **Criterion Statement**

State of Louisiana: Louisiana Peacetime Radiological Response Plan (LPRRP), January 2009 is adequate – corrections must be made. The plan identifies the individual, by title, which is responsible for the planning effort.

Tensas Parish: Attachment 2 of the Louisiana Peacetime Radiological Response Plan, January 2009 is adequate to meet the intent of criterion P.3.

The parish plan identifies the Emergency Preparedness Coordinator under the Tensas Parish Office of Homeland Security and Emergency Preparedness as the individual with the responsibility for development and updating of emergency plans and coordination of plans with other organizations.

#### **Plan Reference**

State of Louisiana: LPRRP, Basic Plan, Section V.B; Attachments 1, 2, and 3

Tensas Parish: Attachment 2, Enclosure 1, Chapter D.1.c

#### **Criterion Evaluation**

State of Louisiana: **Adequate**

Tensas Parish: **Adequate**

- P.4 Each organization shall update its plan and agreements as needed, review and certify it to be current on an annual basis. The update shall take into account changes identified by drills and exercises.

#### **Criterion Statement**

State of Louisiana: Louisiana Peacetime Radiological Response Plan (LPRRP), January 2009 is adequate to meet the intent of criterion P.4. The State plan provides for an annual update and certification of the plan as well as a requirement to correct planning issues identified.

Tensas Parish: Attachment 2 of the Louisiana Peacetime Radiological Response Plan, January 2009 is adequate. Attachment 2, Enclosure 1, Section D.1.c, provides for annual review and updates of the parish plans including corrections of plan issues that have been identified.

#### **Plan Reference**

State of Louisiana: LPRRP, Basic Plan, Section VIII.B and VIII.D4

Tensas Parish: Attachment 2, General Plan, Enclosure I, Section D.1.c

#### **Criterion Evaluation**

State of Louisiana: **Adequate**

Tensas Parish: **Adequate**

- P.5 The emergency response plans and approved changes to the plans shall be forwarded to all organizations and appropriate individuals with responsibility for implementation of the plans. Revised pages shall be dated and marked to show where changes have been made.

**Criterion Statement**

State of Louisiana: The Louisiana Peacetime Radiological Response Plan (LPRRP), January 2009 is adequate. The state plans include a distribution list for control copy holders and provide for changes to be marked and dated.

Tensas Parish: Attachment 2 of the Louisiana Peacetime Radiological Response Plan, January 2009 is adequate. This criterion is covered in the LPRRP, Basic Plan, Section VIII.C.

**Plan Reference**

State of Louisiana: LPRRP, Basic Plan, Section VIII.C and Tab 1

Tensas Parish: LPRRP Basic Plan, Section VIII.C; Attachment 2, Section II.B

**Criterion Evaluation**

State of Louisiana: **Adequate**

Tensas Parish: **Adequate**

- P.6 Each plan shall contain a detailed listing of supporting plans and their source.

**Criterion Statement**

State of Louisiana: The Louisiana Peacetime Radiological Response Plan (LPRRP), January 2009 is adequate to meet the intent of criterion P.6. The plan includes a list of supporting plans and their sources.

Tensas Parish: Attachment 2 of the Louisiana Peacetime Radiological Response Plan, January 2009 is adequate to meet the intent of criterion P.6. The parish plan includes a list of supporting plans and their resources.

**Plan Reference**

State of Louisiana: LPRRP, Basic Plan, Section VIII, Tab 3

Tensas Parish: Attachment 2, general Plan, Appendix G

### **Criterion Evaluation**

State of Louisiana: **Adequate**

Tensas Parish: **Adequate**

- P.7 Each plan shall contain an appendix listing, by title, procedures required to implement the plan. The listing shall include the section(s) of the plan to be implemented by each procedure.

### **Criterion Statement**

State of Louisiana: The Louisiana Peacetime Radiological Response Plan (LPRRP), January 2009 is adequate to meet the intent of criterion P.7. The plan includes a listing of procedures and indicates which portions of the plan individual procedures address.

Tensas Parish: Attachment 2 of the Louisiana Peacetime Radiological Response Plan, January 2009 is adequate to meet the intent of criterion P.7. The plan includes a listing of procedures and indicates which portions of the plan individual procedures address.

### **Plan Reference**

State of Louisiana: LPRRP, Basic Plan, Section VIII, Tab 2

Tensas Parish: Attachment 2, Enclosure 1, Appendix I-3

### **Criterion Evaluation**

State of Louisiana: **Adequate**

Tensas Parish: **Adequate**

- P.8 Each plan shall contain a specific table of contents. Plans submitted for review should be cross-referenced to these criteria.

### **Criterion Statement**

State of Louisiana: The Louisiana Peacetime Radiological Response Plan (LPRRP), January 2009 is adequate to meet the intent of criterion P8. The State plan includes a table of contents and a cross-reference to the NUREG 0654 individual planning standard criteria.

Tensas Parish: Attachment 2 of the Louisiana Peacetime Radiological Response Plan, January 2009 is adequate. The plan contains a specific table of contents.



### **Plan Reference**

State of Louisiana: LPRRP, pp. v-vi; LPRRP Cross Reference, pp. viii-x; Attachments 1, 2, and 3

Tensas Parish: Attachment 2, TOC, p.iv; Attachment 2, Section II.B

### **Criterion Evaluation**

State of Louisiana: **Adequate**

Tensas Parish: **Adequate**

- P.10 Each organization shall provide for updating telephone numbers in emergency procedures at least quarterly.

### **Criterion Statement**

State of Louisiana: The Louisiana Peacetime Radiological Response Plan (LPRRP), January 2009 is adequate. The LPRRP Cross Reference Index to NUREG 0654 Criteria includes only a broad reference to Implementing Procedures which contains the phone numbers to be updated.

Tensas Parish: Attachment 2 of the Louisiana Peacetime Radiological Response Plan, January 2009 is adequate to meet the intent of criterion P.10. The plan clearly identifies the Parish Emergency Preparedness Coordinator as having the responsibility to update telephone numbers in emergency procedures.

### **Plan Reference**

State of Louisiana: LPRRP Basic Plan, Section VIII.D.5

Tensas Parish: Attachment 2, Enclosure 1, Section D.1.c

### **Criterion Evaluation**

State of Louisiana: **Adequate**

Tensas Parish: **Adequate**

## **IV. SCHEDULE OF PENDING ACTIONS OR REQUIREMENTS FOR REASONABLE ASSURANCE**

### **A. Pending Actions**

No further actions required for the Grand Gulf COL in Phase 2. Through thorough review of the submitted COL Application and related submitted documents, FEMA Region IV has determined that the State and local plans require no further pending actions.

The State and Claiborne County have demonstrated through biennial exercises that the capabilities exist to successfully respond to an incident at the Grand Gulf Nuclear Station. They have also certified through their annual letter of certification compliance with the planning standards set forth in 44 CFR 350. The biennial exercises and the annual letters of certification serve as the basis for their continued 'reasonable assurance' findings by FEMA at this site.

**B. Requirements for Reasonable Assurance**

This Interim Findings Report concludes that based upon Plan information reviewed and documents submitted from the applicant and the State of Mississippi requirements for reasonable assurance have been met for Phase 2. The State of Mississippi's capability has been well demonstrated through their integral involvement in the development of the current plans and procedures for the existing reactor at the Grand Gulf Nuclear Station site, as well as the other sites affecting the State of Mississippi. Further the State and Claiborne County have demonstrated through biennial exercises that the capabilities exist to successfully respond to an incident at the Grand Gulf Nuclear Station. They have also certified through their annual letter of certification compliance with the planning standards set forth in 44 CFR 350. The biennial exercises and the annual letters of certification serve as the basis for their continued 'reasonable assurance' findings by FEMA at this site.

#### IV RATING SUMMARY

Rating Summary review and evaluation of the State of Mississippi emergency preparedness plans and procedures for the Grand Gulf Nuclear Power Station unit 3 and for the State of Louisiana, Supplement 2, Louisiana Peacetime Radiological Response Plan (LPRRP) Basic Plan, (January 2009) LPRRP (January 2009), Attachment 2, Grand Gulf Nuclear Station, General Plan and Tensas Parish Radiological Emergency Response Plan, Enclosure I to Attachment 2 against the planning standards of NUREG-0654/FEMA-REP-1, Rev. 1, as amended.

(Evaluation Elements applicable only to utilities not listed.)

A – Adequate

Element	Rating	Rating	Rating	Rating	Element	Rating	Rating	Rating	Rating
	Mississippi	Claiborne	Louisiana	Tensas Parish		Mississippi	Claiborne	Louisiana	Tensas Parish
<b>A.1.a</b>	A	A	A	A	<b>J.10.g</b>	A	A	A	
<b>A.1.b</b>	A	A	A	A	<b>J.10.h</b>	A	A	A	
<b>A.1.c</b>	A	A	A	A	<b>J.10.i</b>	A	A	A	
<b>A.1.d</b>	A	A	A	A	<b>J.10.j</b>	A	A	A	
<b>A.1.e</b>	A	A	A	A	<b>J.10.k</b>	A	A	A	
<b>A.2.a</b>	A	A	A	A	<b>J.10.l</b>	A	A	A	
<b>A.2.b</b>	A	A	A	A	<b>J.10.m</b>	A	A	A	
<b>A.3</b>	A	A	A	A	<b>J.11</b>	A	A	A	
<b>A.4</b>	A	A	A	A	<b>J.12</b>	A	A	A	
<b>C.1.a</b>	A	NA	A	N/A	<b>K.3.a</b>	A	A	A	
<b>C.1.b</b>	A	NA	A	N/A	<b>K.3.b</b>	A	A	A	
<b>C.1.c</b>	A	A	A	A	<b>K.4</b>	A	A	A	
<b>C.2.a</b>	A	A	A	N/A	<b>K.5.a</b>	A	A	A	
<b>C.3</b>	A	NA	A	N/A	<b>K.5.b</b>	A	A	A	
<b>C.4</b>	A	A	A	A	<b>L.1</b>	A	A	A	
<b>D.3</b>	A	A	A	A	<b>L.3</b>	A	NA	A	
<b>D.4</b>	A	A	A	A	<b>L.4</b>	A	A	A	
<b>E.1</b>	A	A	A	A	<b>M.1</b>	A	A	A	
<b>E.2</b>	A	A	A	A	<b>M.3</b>	A	NA	A	
<b>E.5</b>	A	A	A	A	<b>M.4</b>	A	NA	A	
<b>E.6</b>	A	A	A	A	<b>N.1.a</b>	A	A	A	
<b>E.7</b>	A	A	N/A	A	<b>N.1.b</b>	A	A	A	
<b>F.1.a</b>	A	A	A	A	<b>N.2.a</b>	A	A	A	
<b>F.1.b</b>	A	A	A	A	<b>N.2.c</b>	N/A	A	N/A	
<b>F.1.c</b>	A	A	A	A	<b>N.2.d</b>	A	A	A	
<b>F.1.d</b>	A	A	A	A	<b>N.2.e</b>	A	NA	A	
<b>F.1.e</b>	A	A	A	A	<b>N.3.a</b>	A	A	A	

<b>F.2</b>	A	A	A	A	<b>N.3.b</b>	A	A	A	
<b>F.3</b>	A	A	A	A	<b>N.3.c</b>	A	A	A	
<b>G.1</b>	A	A	A	A	<b>N.3.d</b>	A	A	A	
<b>G.2</b>	A	A	A	A	<b>N.3.e</b>	A	A	A	
<b>G.3.a</b>	A	A	A	A	<b>N.3.f</b>	A	A	A	
<b>G.4.a</b>	A	A	A	A	<b>N.4</b>	A	A	A	
<b>G.4.b</b>	A	A	A	A	<b>N.5</b>	A	A	A	
<b>G.4.c</b>	A	A	A	A	<b>O.1</b>	A	A	A	
<b>G.5</b>	A	A	A	A	<b>O.1.b</b>	A	A	A	
<b>H.3</b>	A	A	A	A	<b>O.4.a</b>	A	A	A	
<b>H.4</b>	A	A	A	A	<b>O.4.b</b>	A	NA	A	
<b>H.7</b>	A	A	A	A	<b>O.4.c</b>	A	NA	A	
<b>H.10</b>	A	A	A	A	<b>O.4.d</b>	A	A	A	
<b>H.11</b>	A	A	A	A	<b>O.4.f</b>	NA	A	A	
<b>H.12</b>	A	NA	A	A	<b>O.4.g</b>	NA	A	A	
<b>I.7</b>	A	NA	A	A	<b>O.4.h</b>	A	A	A	
<b>I.8</b>	A	NA	A	A	<b>O.4.j</b>	A	A	A	
<b>I.9</b>	A	NA	A	N/A	<b>O.5</b>	A	A	A	
<b>I.10</b>	A	NA	A	N/A	<b>P.1</b>	A	A	A	
<b>I.11</b>	A	NA	A	N/A	<b>P.2</b>	A	A	A	
<b>J.2</b>	N/A	A	A	A	<b>P.3</b>	A	A	A	
<b>J.9</b>	A	A	A	A	<b>P.4</b>	A	A	A	
<b>J.10.a</b>	A	A	A	A	<b>P.5</b>	A	A	A	
<b>J.10.b</b>	A	A	A	A	<b>P.6</b>	A	A	A	
<b>J.10.c</b>	A	A	A	A	<b>P.7</b>	A	A	A	
<b>J.10.d</b>	A	A	A	A	<b>P.8</b>	A	A	A	
<b>J.10.e</b>	A	A	A	A	<b>P.10</b>	A	A	A	
<b>J.10.f</b>	A	A	A	A					

## V. RAI/OIs/RA

This Interim Findings Report concludes that based upon Plan information reviewed and documents submitted from the applicant and the State of Mississippi requirements for reasonable assurance have been met for Phase 2. The State of Mississippi’s capability has been well demonstrated through their integral involvement in the development of the current plans and procedures for the existing reactor at the Grand Gulf Nuclear Station site, as well as the other sites affecting the State of Mississippi. Further the State and Claiborne County have demonstrated through biennial exercises that the capabilities exist to successfully respond to an incident at the Grand Gulf Nuclear Station. They have also certified through their annual letter of certification compliance with the planning standards set forth in 44 CFR 350. The biennial exercises and the annual letters of certification serve as the basis for their continued ‘reasonable assurance’ findings by FEMA at this site.



## VI. ACRONYMS AND ABBREVIATIONS

AAC	Accident Assessment Coordinator
ACP	Access Control Point
AD	Assistant Director
AR	Acceptance Review
ARC	American Red Cross
ARCA	Areas Requiring Corrective Actions
CAT	Crisis Action Team
CCCD	Claiborne County Civil Defense
CDE	Committed Dose Equivalent
CFM	Cubic Feet per Minute
CIO	Chief Information Officer
COL	Combined License
COLA	Combined License Application
DAC	Dose Assessment Coordinator
DENR	Department of Environment and Natural Resources
DHH	Louisiana Department of Health & Hospital
DHR	Department of Human Resources
DHS/FEMA	Department of Homeland Security/Federal Emergency Management Agency
DIL	Derived Intervention Level
DOA	Department of Agriculture
DOE	(U.S.) Department of Energy
DOT	Department of Transportation
DOTD	Louisiana Department of Transportation
DRD	Direct Reading Dosimeter
DRH	Division of Radiological Health
EAL	Emergency Action Level
EAS	Emergency Alert System
EBS	Emergency Broadcast System
ECL	Emergency Classification Level
ED	Electronic Dosimeters
EIC	Emergency Information Center
ECL	Emergency Classification Level
ECV	Emergency Communications Vehicle
EMA	Emergency Management Agency
EMAC	Emergency Management Assistance Compact
EMI	Emergency Management Institute
EMS	Emergency Medical Services
ENF	Emergency Notification Form
ENN	Emergency Notification Network
ENNF	Emergency Notification Network Form
ENMC	Emergency News Media Center

EOC	Emergency Operations Center
EOF	Emergency Operations Facility
EOP	Emergency Operations Plan
EPA	Environmental Protective Agency
EPZ	Emergency Planning Zone
ERC	Emergency Response Coordinator
ESF	Emergency Support Function
ERT	Emergency Response Team
ESBWR	Economic Simplified Boiling Water Reactor
ESF	Emergency Support Function
ETE	Evacuation Time Estimate
EW	Emergency Workers
FDA	Food and Drug Administration
FEMA	Federal Emergency Management Agency
FMT	Field Monitoring Team
FNF	Fixed Nuclear Facility
FP	Franklin Parish
FPHSEP	Franklin Parish Office of Homeland Security and Emergency Preparedness
FR	Federal Register
FRERP	Federal Radiological Emergency Response Plan
FRMAC	Federal Radiological Monitoring and Assessment Center
FRMAP	Federal Radiological Monitoring and Assessment Plan
GE	General Emergency
GGNS	Grand Gulf Nuclear Station
G-M	Geiger-Mueller
GOHSEP	Governor's Office of Homeland Security and Emergency Preparedness
HHS	Health and Human Services
HOO	Headquarters Operations Officer
HQ	FEMA Headquarters
IFR	Interim Finding Report
IPZ	Ingestion Pathway Zone
IRT	Initial Reaction Team
JIC	Joint Information Center
KI	Potassium Iodide
LDEQ	Louisiana Department of Environmental Quality
LDEQ	Louisiana Department of Environmental Quality
LHLS/EP	Louisiana Homeland Security/Emergency Preparedness
LOA	Letters of Agreement
LPRRP	Louisiana Peacetime Radiological Response Plan
MEMA	Mississippi Emergency Management Agency
MEMA	Mississippi Emergency Management Agency
MEOP	Mississippi Emergency Operations Plan
MOC	Mobile Operations Center
MOU	Memorandum of Understanding
MREPP	Mississippi Radiological Emergency Preparedness Plan
mR/hr	milli-Roentgen per hour

MRL	Mobile Radiological Laboratory
MS-1	Medical Services Drill
MSDH	Mississippi State Department of Health
MSDH/DRH	Mississippi State Department of Health/Division of Radiation Health
NAWAS	National Warning Systems
NCIS	National Crime Information System
NETC	National Emergency Training Center
NIMS	National Incident Management System
NOUE	Notice of Unusual Event
NPP	Nuclear Power Plant
NRC	Nuclear Regulatory Commission
NRP	National Response Plan (now National Response Framework, March 2008)
NUREG	Nuclear Regulatory Commission Publication
NWS	National Weather Service
OI	Open Item
OHL	Operational Hot Line
ORO	Offsite Response Organization
OSL	Optically Stimulated Luminescence
PAD	Protective Action Decision
PAG	Protective Action Guide
PAR	Protective Action Recommendation
PAS	Protective Action Sections
PG/CCCD	Port Gibson/Claiborne County Civil Defense Agency
PGCCREPP	Port Gibson Claiborne County Radiological Emergency Preparedness Plan
PIO	Public Information Officer
PJP	Police Jury President
PPE	Personal Protective Equipment
PRD	Permanent Record Dosimeter
PSER	Preliminary Safety Evaluation Report
R/R/R	Relocation, Reentry, and Recovery
RAC	Regional Assistance Committee
RACES	Radio Amateur Civil Emergency Service
RAI	Request for Additional Information
RAP	Radiological Assistance Program
RDO	Radiological Defense Officer
REDAM	Radiological Emergency Dose Assessment Model
REA	Radiological Emergency Area
REM	Roentgen Equivalent Man
REP	Radiological Emergency Preparedness
RERTC	Radiological Emergency Response Team Coordinator
RRA	Required for Reasonable Assurance
SAE	Site Area Emergency
SAV	Staff Assistance Visit
SDA	Surveillance Division Administrator
SDO	Staff Duty Officer
SEOC	State Emergency Operations Center



SEOFL	Senior Emergency Operations Facility Liaison
SER	Safety Evaluation Report
SERT	State Emergency Response Team
SHP	State Highway Patrol
SLO	State Liaison Officer
SMRAP	Southern Mutual Radiation Assistance Plan
SO	Sheriff's Office
SOP	Standard Operating Procedure
SR	Status Report
SRD	Self Reading Dosimeter
SRS	Savannah River Site
T/ACP	Traffic and Access Control Points
TCP	Traffic Control Point
TBD	To Be Determined
TEDE	Total Effective Dose Equivalent
TLD	Thermoluminescent Dosimeter
TO	Transportation Officer
TPEOC	Tensas Parish Emergency Operations Center
TPHSEP	Tensas Parish Office of Homeland Security and Emergency Preparedness
UHF	Ultra-High Frequency
VHF	Very-High Frequency
μCi	micro (μ) Curies