



River Bend Station  
West Feliciana Parish Emergency Medical  
Services and  
West Feliciana Parish Hospital  
Medical Services Drill  
After Action Report/Improvement Plan  
Drill Date: November 16, 2023

Publication Date: February 12, 2024



FEMA

**Radiological Emergency Preparedness Program**  
**River Bend Station After Action Report/Improvement Plan**

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## Executive Summary

On November 16, 2023, the Department of Homeland Security (DHS), Federal Emergency Management Agency (FEMA), Region 6, evaluated the West Feliciana Parish Hospital (WFPH) and West Feliciana Parish (WFP) Emergency Medical Services (EMS) for River Bend Station (RBS), located near St. Francisville, Louisiana.

During the RBS drill, FEMA assessed the ability of state and local officials to implement plans and procedures to protect the public in the event of a radiological incident. This drill is part of the FEMA Radiological Emergency Preparedness Program. This program ensures that adequate capabilities exist to prevent, protect against, mitigate the effects of, respond to, and recover from incidents involving commercial nuclear power plants. The drill implemented the revised NUREG 0654/FEMA-REP-1, Rev. 2 document and the 2019 Radiological Emergency Preparedness Program Manual. The last medical services drill (MSD) for WFPH and WFP EMS was demonstrated on November 17, 2021.

This report contains the final written evaluations of this drill. The state and local organizations demonstrated knowledge of their emergency response plans and procedures and adequately implemented them. There were no Level 1 or Level 2 Findings however, one Plan Issue was identified as a result of the drill.

## Section 1: Overview

Name	2023 RBS Drill
Date	November 16, 2023
Scope	Through simulated scenarios, these drills assessed the Offsite Response Organizations' (ORO) decision-making, communication, and collaboration skills in managing a radiological emergency.
Mission Area(s)	Protection Response
Core Capabilities	Operational Coordination Environmental Response/Health and Safety
Objectives	Exposure Control Operate
Threat or Hazard	Release of radiological materials from a commercial nuclear power plant.
Scenario	MSD
Sponsor	Louisiana Department of Environmental Quality RBS
Participating Organizations	A complete list of participating agencies and organizations is attached in Appendix A.

## Section 2: Analysis of Capabilities

### 2.1 Summary Results of Assessment

Table 1 below includes the assessment activity objectives, capability targets, selected core capabilities, and status of each capability target evaluated during the RBS MSD.

Each jurisdiction and functional entity were evaluated based on the demonstration of core capabilities and capability targets. Capability targets are listed, and the demonstration status of those capability targets are indicated by the use of the following terms:

- **Met (M):** The jurisdiction or functional entity performed all activities under the objective/capability target to the level required per the work plan and/or the extent of play agreement, with no Level 1 or Level 2 Findings evaluated under that objective/capability target during the current activity and no unresolved prior Level 2 Finding(s).
- **Level 1 Finding (L1):** An observed or identified inadequacy of organizational performance during an assessment activity that could cause a determination that offsite emergency preparedness is not adequate to provide reasonable assurance that appropriate protective measures can be taken in the event of a radiological emergency to protect the health and safety of the public living in the vicinity of a nuclear power plant.
- **Level 2 Finding (L2):** An observed or identified inadequacy of organizational performance during an assessment activity that is not considered, by itself, to adversely impact public health and safety.
- **Plan Issue (P):** An observed or identified inadequacy in the OROs emergency plan/implementing procedures, rather than in that of the OROs performance.
- **Not Demonstrated (N):** For a justifiable reason, the jurisdiction or functional entity did not perform assessment activities under the objective/capability target as specified in the extent of play agreement.
- **Not Applicable (N/A):** The objective/capability target does not apply to the jurisdiction.

**Table 1. Summary Results of Capability Targets**

Venue	Capability Target	Core Capability	Status
<b>Objective 2: Exposure Control</b>			
West Feliciana Parish Hospital	2.2	Operational Coordination, Environmental Response/Health and Safety	M
West Feliciana Parish Emergency Medical Services	2.2	Operational Coordination, Environmental Response/Health and Safety	M
<b>Objective 5: Operate</b>			
West Feliciana Parish Hospital	5.3	Environmental Response/Health and Safety	P
West Feliciana Parish Emergency Medical Services	5.3	Environmental Response/Health and Safety	M

## 2.2 Detailed Results of Exercise Evaluation

### WEST FELICIANA PARISH HOSPITAL

#### Objective 2: Exposure Control

#### Capability Target 2.2 – Emergency Worker Exposure Control Management

#### Objective 5: Operate

#### Capability Target 5.3: Transportation and Treatment of Contaminated Injured Individuals

In summary, the status of DHS/FEMA criteria for this location is as follows:

- a. MET: 2.2
- b. LEVEL 1 FINDING: None
- c. LEVEL 2 FINDING: None
- d. PLAN ISSUE: 5.3

ISSUE NUMBER: 53-23-5.3-P-01

CAPABILITY TARGET: 5.3 Transportation and Treatment of Contaminated Injured Individuals

CONDITION: The WFPH survey meters were set up, batteries checked, and a bump-test with a Cs-137 check source was conducted. However, there was not an operational check conducted on the survey meters nor was there range of reading stickers affixed to the meters.

POSSIBLE CAUSE: River Bend Station Radiation Technicians (RTs) would normally bring the survey meters from the plant but used the backup survey meters stored at the hospital.

PLANNING REFERENCES: NUREG-0654/FEMA-REP-1, Rev. 2 (K.4.d, H.11, H.11.b)

EFFECT: The RBS RTs could not ensure the equipment was measuring properly.

RECOMMENDATION: It is recommended the hospital procedure be revised to include operational checks and affix a range of reading sticker to the survey meters. The procedure should also include instructions on conducting an operational check to verify the meter is reading properly.

- e. NOT DEMONSTRATED: None
- f. PRIOR ISSUES - RESOLVED: None
- g. PRIOR ISSUES - UNRESOLVED: None



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**WEST FELICIANA PARISH EMERGENCY MEDICAL SERVICES****Objective 2: Exposure Control****Capability Target 2.2 – Emergency Worker Exposure Control Management****Objective 5: Operate****Capability Target 5.3: Transportation and Treatment of Contaminated Injured Individuals**

In summary, the status of DHS/FEMA criteria for this location is as follows:

- a. MET: 2.2, 5.3
- b. LEVEL 1 FINDING: None
- c. LEVEL 2 FINDING: None
- d. PLAN ISSUES: None
- e. NOT DEMONSTRATED: None
- f. PRIOR ISSUES - RESOLVED: None
- g. PRIOR ISSUES - UNRESOLVED: None

## Appendix A: Participating Organizations

### Participating Organizations

<b>State Organizations</b>
Louisiana Governor’s Office of Homeland Security and Emergency
Louisiana Department of Environmental Quality
<b>Support Organizations</b>
West Feliciana Parish
<b>Private Organizations</b>
River Bend Station
West Feliciana Parish Hospital
West Feliciana Parish Emergency Medical Services

## Appendix B: Planning Team & Evaluation Team

### Planning Team

Planners		
Regional Assistance Committee Chair	Oscar Martinez	FEMA Region 6
Site Specialist	Misty Chance	FEMA Region 6
State Planning Team Lead Environmental Scientist III	Jamie Dismukes	Louisiana Department of Environmental Quality

### Evaluation Team

Team Leaders and Evaluators		
Venue/Location	Evaluation Team/Team Lead	Agency
West Feliciana Parish Hospital and West Feliciana Parish Emergency Medical Services	Melisa Ogrodnik (Team Lead) Misty Chance Bart Ray	FEMA Region 6 FEMA Region 6 Cadmus

## Appendix C: Acronyms and Abbreviations

Acronym	Description
DHS	Department of Homeland Security
EMS	Emergency Medical Services
FEMA	Federal Emergency Management Agency
MSD	Medical Services Drill
ORO	Offsite Response Organizations
RBS	River Bend Station
RT	Radiation Technician
WFP	West Feliciana Parish
WFPH	West Feliciana Parish Hospital

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## Appendix D: Extent of Play Agreement and Scenario

FEMA Region 6 maintains an approved copy of the extent of play agreement and scenario.

## Appendix E: Improvement Plan

This Improvement Plan has been developed as a result of the RBS MSD conducted on November 16, 2023.

Capability Target	Core Capabilities	Issue/Summary	Corrective Action	Primary Responsible Organization	Organization POC	Start Date	Completion Date
5.3	Environmental Response/ Health and Safety	53-23-5.3-P-01  The WFPH survey meters were set up, battery checked, and a bump-test with a Cs-137 check source was conducted. However, there was not an operational check conducted on the survey meters nor was there a range of reading sticker affixed to the meters.	It is recommended the hospital procedure be revised to include operational checks and affix range of reading stickers to the survey meters. The procedure should include instructions on conducting an operational check to verify the meter is reading properly.	WFPH		11/16/2023	



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