



River Bend Station
Ingestion Pathway Exercise
After Action Report/Improvement Plan

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FEMA

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

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Executive Summary

On October 18-19, 2022, the Department of Homeland Security (DHS), Federal Emergency Management Agency (FEMA), Region 6, evaluated the Ingestion Pathway Emergency Radiological Response for the River Bend Station, located near St. Francisville, Louisiana.

During the Ingestion Pathway Exercise, 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 exercise 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. This exercise implemented the revised NUREG 0654/FEMA-REP-1, Rev. 2 document and the 2019 Radiological Emergency Preparedness Program Manual (RPM). The previous exercise at this site was conducted on March 31, 2021.

This report contains the final written evaluation of the exercise. The state and local organizations demonstrated knowledge of their emergency response plans and procedures and adequately implemented them. There were no Level 1 Findings or Plan Issues identified. There was one Level 2 Finding identified and corrected during the exercise.



Section 1: Exercise Overview

Name	2022 River Bend Station Exercise
Dates	October 18-19, 2022
Purpose	The purpose of the Ingestion Pathway Exercise was to assess the level of preparedness of offsite response organizations to respond to a simulated radiological emergency.
Mission Area(s)	Protection Response
Core Capabilities	Operational Coordination Environmental Response/Health and Safety Situational Assessment Operational Communications Public Information and Warning On-Scene Security, Protection and Law Enforcement Planning
Objectives	Emergency Operations Management Exposure Control Alert and Notification Detect, Measure, Sample, Analyze and Assess Operate
Threat or Hazard	Release of radiological materials from a commercial nuclear power plant.
Scenario	This exercise required coordinated decisions of offsite response organizations (OROs) to address a radiological hazard from an emergency at River Bend Station (RBS). The OROs demonstrated the implementation of protective actions to preserve health and safety of the public due to a potential or actual offsite release of radioactive materials from RBS.
Participating Organizations	A complete list of participating agencies and organizations is attached in Appendix B.

Section 2: Analysis of Capabilities

2.1 Summary Results of Assessment

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

Each jurisdiction and functional entity were evaluated based on the demonstration of core capabilities and capability targets. The demonstration status of the capability targets is indicated using 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 Capabilities	Status
Objective 1: Emergency Management Operations			
GOHSEP State EOC	1.1	Operational Coordination	M
	1.2	Operational Coordination, Environmental Response/Health and Safety	M
	1.3	Operational Coordination, Environmental Response/Health and Safety, Situational Assessment	M
	1.4	Operational Coordination, Environmental Response/Health and Safety, Situational Assessment	M
	1.5	Operational Coordination, Environmental Response/Health and Safety	M
LDEQ HQ	1.1	Operational Coordination	M
	1.2	Operational Coordination, Environmental Response/Health and Safety	M
LDEQ at the EOF	1.1	Operational Coordination	M
	1.2	Operational Coordination, Environmental Response/Health and Safety, Planning	M
	1.3	Operational Coordination, Environmental Response/Health and Safety, Situational Assessment	M
	1.6	n/a	M
	1.7	n/a	M
Joint Information Center	1.1	Operational Coordination	M
	1.7	n/a	M
East Baton Rouge Parish EOC	1.1	Operational Coordination	M
	1.2	Operational Coordination, Environmental Response/Health and Safety	M
	1.4	Operational Coordination, Environmental Response/Health and Safety, Situational Assessment	M



Venue	Capability Target	Core Capabilities	Status
	1.5	Operational Coordination, Environmental Response/Health and Safety	M
	1.6	n/a	M
	1.7	n/a	M
East Feliciana Parish EOC	1.1	Operational Coordination	M
	1.2	Operational Coordination, Environmental Response/Health and Safety	M
	1.4	Operational Coordination, Environmental Response/Health and Safety, Situational Assessment	M
	1.5	Operational Coordination, Environmental Response/Health and Safety	M
	1.6	n/a	M
	1.7	n/a	M
Pointe Coupee Parish EOC	1.1	Operational Coordination	M
	1.2	Operational Coordination, Environmental Response/Health and Safety	M
	1.4	Operational Coordination, Environmental Response/Health and Safety, Situational Assessment	M
	1.5	Operational Coordination, Environmental Response/Health and Safety	M
	1.6	n/a	M
	1.7	n/a	M
West Baton Rouge Parish EOC	1.1	Operational Coordination	M
	1.2	Operational Coordination, Environmental Response/Health and Safety	M
	1.4	Operational Coordination, Environmental Response/Health and Safety, Situational Assessment	M
	1.5	Operational Coordination, Environmental Response/Health and Safety	M
	1.6	n/a	M
	1.7	n/a	M
West Feliciana Parish EOC	1.1	Operational Coordination	M
	1.2	Operational Coordination, Environmental Response/Health and Safety	M



Venue	Capability Target	Core Capabilities	Status
	1.4	Operational Coordination, Environmental Response/Health and Safety, Situational Assessment	M
	1.5	Operational Coordination, Environmental Response/Health and Safety	M
	1.6	n/a	M
	1.7	n/a	M
LA State Decision Making	1.6	n/a	M
	1.7	n/a	M
Objective 2: Exposure Control			
GOHSEP State EOC	2.1	Operational Coordination, Environmental Response/Health and Safety	M
LDEQ at the EOF	2.1	Operational Coordination, Environmental Response/Health and Safety	M
	2.2	Operational Coordination, Environmental Response/Health and Safety	M
LDEQ FMT 1	2.2	Operational Coordination, Environmental Response/Health and Safety	M
LEDQ FMT 2	2.2	Operational Coordination, Environmental Response/Health and Safety	M
East Baton Rouge Parish EOC	2.1	Operational Coordination, Environmental Response/Health and Safety	M
	2.2	Operational Coordination, Environmental Response/Health and Safety	M
East Feliciana Parish EOC	2.1	Operational Coordination, Environmental Response/Health and Safety	M
	2.2	Operational Coordination, Environmental Response/Health and Safety	M
Pointe Coupee Parish EOC	2.1	Operational Coordination, Environmental Response/Health and Safety	M
	2.2	Operational Coordination, Environmental Response/Health and Safety	M

Venue	Capability Target	Core Capabilities	Status
West Baton Rouge Parish EOC	2.1	Operational Coordination, Environmental Response/Health and Safety	M
	2.2	Operational Coordination, Environmental Response/Health and Safety	M
West Feliciana Parish EOC	2.1	Operational Coordination, Environmental Response/Health and Safety	M
	2.2	Operational Coordination, Environmental Response/Health and Safety	M
American Radiation Services Laboratory	2.2	Operational Coordination, Environmental Response/Health and Safety	M
Objective 3: Alert and Notification			
GOHSEP State EOC	3.1	Operational Coordination, Operational Communications	M
	3.2	Public Information and Warning	M
LDEQ HQ	3.1	Operational Coordination, Operational Communications	M
LDEQ at the EOF	3.1	Operational Coordination, Operational Communications	M
Joint Information Center	3.1	Operational Coordination, Operational Communications	M
	3.3	Public Information and Warning	M
	3.3	Public Information and Warning	M
East Baton Rouge Parish EOC	3.1	Operational Coordination, Operational Communications	M
	3.2	Public Information and Warning	M
	3.3	Public Information and Warning	M
East Feliciana Parish EOC	3.1	Operational Coordination, Operational Communications	M
	3.2	Public Information and Warning	M
	3.3	Public Information and Warning	M

Venue	Capability Target	Core Capabilities	Status
Pointe Coupee Parish EOC	3.1	Operational Coordination, Operational Communications	M
	3.2	Public Information and Warning	M
	3.3	Public Information and Warning	M
West Baton Rouge Parish EOC	3.1	Operational Coordination, Operational Communications	M
	3.2	Public Information and Warning	M
	3.3	Public Information and Warning	M
West Feliciana Parish EOC	3.1	Operational Coordination, Operational Communications	M
	3.2	Public Information and Warning	M
	3.3	Public Information and Warning	M
EAS Radio Station WJBO	3.2	Public Information and Warning	M
Objective 4: Detect, Measure, Sample, Analyze and Assess			
LDEQ at the EOF	4.1	Environmental Response/Health and Safety	M
	4.5	Environmental Response/Health and Safety	M
LDEQ FMT 1	4.3		M
LEDQ FMT 2	4.3		M
LA State Sampling Development Plan	4.6		M
American Radiation Services Laboratory	4.4		M
Objective 5: Operate			
GOHSEP State EOC	5.4	Operational Coordination, On-Scene Security, Protection, and Law Enforcement	M
East Baton Rouge Parish EOC	5.4	Operational Coordination, On-Scene Security, Protection, and Law Enforcement	M



Venue	Capability Target	Core Capabilities	Status
East Feliciana Parish EOC	5.4	Operational Coordination, On-Scene Security, Protection, and Law Enforcement	M
Pointe Coupee Parish EOC	5.4	Operational Coordination, On-Scene Security, Protection, and Law Enforcement	M
West Baton Rouge Parish	5.4	Operational Coordination, On-Scene Security, Protection, and Law Enforcement	M
West Feliciana Parish EOC	5.4	Operational Coordination, On-Scene Security, Protection, and Law Enforcement	M

2.2 Results of Exercise Evaluation

GOHSEP State EOC

Objective 1: Emergency Management Operations

Capability Target 1.1: Mobilization

Capability Target 1.2: Direction and Control

Capability Target 1.3: Protective Action Recommendations

Capability Target 1.4: Protective Action Decisions for the Plume Phase

Capability Target 1.5: Protective Action Decisions Implementation for the Plume Phase

Objective 2: Exposure Control

Capability Target 2.1: Emergency Worker Exposure Control Decision-Making Process

Objective 3: Alert and Notification

Capability Target 3.1: Communication

Capability Target 3.2: Alert and Notification to the Public

Capability Target 3.3: Emergency Information and Instructions for Public and News Media

Objective 5: Operate

Capability Target 5.4: Traffic and Access Control

In summary, the status of DHS/FEMA capability targets for this location are as follows:

- a. MET: 1.1, 1.2, 1.3, 1.4, 1.5, 2.1, 3.1, 3.2, 3.3, 5.4
- b. LEVEL 1 FINDING: None
- c. LEVEL 2 FINDING: None
- d. PLAN ISSUES: None
- e. NOT DEMONSTRATED: None
- f. PRIOR ISSUES - RESOLVED: None
- a. PRIOR ISSUES - UNRESOLVED: None

Louisiana Department of Environmental Quality Headquarters

Objective 1: Emergency Management Operations

Capability Target 1.1: Mobilization

Capability Target 1.2: Direction and Control

Objective 3: Alert and Notification**Capability Target 3.1: Communication**

In summary, the status of DHS/FEMA capability targets for this location are as follows:

- a. MET: 1.1, 1.2, 3.1
- 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

Louisiana Department of Environmental Quality EOF**Objective 1: Emergency Management Operations****Capability Target 1.1: Mobilization****Capability Target 1.2: Direction and Control****Capability Target 1.3: Protective Action Recommendations****Capability Target 1.6: Protective Action Decisions for the Post-Plume Phase****Capability Target 1.7: Protective Action Decisions Implementation for the Post-Plume Phase****Objective 2: Exposure Control****Capability Target 2.1: Emergency Worker Exposure Control Decision-Making Process****Capability Target 2.2: Emergency Worker Exposure Management****Objective 3: Alert and Notification****Capability Target 3.1: Communication****Objective 4: Detect, Measure, Sample, Analyze, and Assess****Capability Target 4.1: Field Monitoring Teams Management****Capability Target 4.5: Plume Phase Analysis and Dose Assessment**

In summary, the status of DHS/FEMA capability targets for this location are as follows:

- a. MET: 1.1, 1.2, 1.3, 1.6, 1.7, 2.1, 2.2, 3.1, 4.1, 4.5
- 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

LDEQ FMT 1

Objective 2: Exposure Control

Capability Target 2.2: Emergency Worker Exposure Management

Objective 3: Alert and Notification

Capability Target 3.1: Communication

Objective 4: Detect, Measure, Sample, Analyze, and Assess

Capability Target 4.2: Plume Phase Measurements and Sampling

Capability Target 4.3: Post-Plume Phase Measurements and Sampling

In summary, the status of DHS/FEMA capability targets for this location are as follows:

- a. MET: 2.2, 3.1, 4.2, 4.3,
- 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

LDEQ FMT 2

Objective 2: Exposure Control

Capability Target 2.2: Emergency Worker Exposure Management

Objective 3: Alert and Notification

Capability Target 3.1: Communication

Objective 4: Detect, Measure, Sample, Analyze, and Assess

Capability Target 4.2: Plume Phase Measurements and Sampling

Capability Target 4.3: Post-Plume Phase Measurements and Sampling

In summary, the status of DHS/FEMA capability targets for this location are as follows:

- a. MET: 2.2, 3.1, 4.2, 4.3,
- 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

Joint Information Center

Objective 1: Emergency Management Operations

Capability Target 1.1: Mobilization

Capability Target 1.7: Protective Action Decisions Implementation for the Post-Plume Phase

Objective 3: Alert and Notification

Capability Target 3.1: Communication

Capability Target 3.3: Emergency Information and Instructions for Public and News Media

In summary, the status of DHS/FEMA capability targets for this location are as follows:

- a. MET: 1.1, 1.7, 3.1, 3.3
- 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

East Baton Rouge Parish EOC

Objective 1: Emergency Management Operations

Capability Target 1.1: Mobilization

Capability Target 1.2: Direction and Control

Capability Target 1.4: Protective Action Decisions for the Plume Phase

Capability Target 1.5: Protective Action Decisions Implementation for the Plume Phase

Capability Target 1.6: Protective Action Decisions for the Post-Plume Phase

Capability Target 1.7: Protective Action Decisions Implementation for the Post-Plume Phase

Objective 2: Exposure Control

Capability Target 2.1: Emergency Worker Exposure Control Decision-Making Process

Capability Target 2.2: Emergency Worker Exposure Management

Objective 3: Alert and Notification

Capability Target 3.1: Communication

Capability Target 3.2: Alert and Notification to the Public

Capability Target 3.3: Emergency Information and Instructions for Public and News Media

Objective 5: Operate

Capability Target 5.4: Traffic and Access Control

In summary, the status of DHS/FEMA capability targets for this location are as follows:

- a. MET: 1.1, 1.2, 1.4, 1.5, 1.6, 1.7, 2.1, 2.2, 3.1, 3.2, 3.3, 5.4
- b. LEVEL 1 FINDING: None
- c. LEVEL 2 FINDING: 3.3

ISSUE NUMBER: 53-22-3.3-001

CAPABILITY TARGET: Emergency Information and Instructions for the Public and News Media

CONDITION: During the exercise, the Public Information Officer drafted a media release to notify the public of the activated reception centers. The media release referenced open shelters for the public following decontamination at the reception centers. The media release was reviewed and approved by the Acting Mayor-President, then disseminated to the Joint Information Center at 1033. This was inaccurate information as there were currently no shelters that had been opened.

POSSIBLE CAUSE: The press release was not thoroughly reviewed prior to release.

PLANNING REFERENCES: NUREG-0654/FEMA-REP-1, Rev. 2 (E.2, E.4, E.5, G.1, G.2, G.3, G.3.a, G.4, G.5, and O.1); East Baton Rouge Parish Emergency Response Procedure for Public Information Officer/Spokesperson

EFFECT: The language used in the media release could cause confusion when the public should be directed to a designated reception center. The public could misinterpret the media release to believe that there were shelters available, directing them to the wrong location.

CORRECTIVE ACTION TAKEN: The issue was identified by the evaluator, and the controller was engaged to discuss a redemonstration by immediate correction. The Public Information Officer discussed modifications of the media release with the Acting Emergency Management Director. They agreed to a revision of the media release to remove the section referencing shelters and disseminated the revised media release to the Joint Information Center at 1042.

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

East Feliciana Parish EOC

Objective 1: Emergency Management Operations

Capability Target 1.1: Mobilization

Capability Target 1.2: Direction and Control

Capability Target 1.4: Protective Action Decisions for the Plume Phase

Capability Target 1.5: Protective Action Decisions Implementation for the Plume Phase

Capability Target 1.6: Protective Action Decisions for the Post-Plume Phase

Capability Target 1.7: Protective Action Decisions Implementation for the Post-Plume Phase

Objective 2: Exposure Control

Capability Target 2.1: Emergency Worker Exposure Control Decision-Making Process

Capability Target 2.2: Emergency Worker Exposure Management

Objective 3: Alert and Notification

Capability Target 3.1: Communication

Capability Target 3.2: Alert and Notification to the Public

Capability Target 3.3: Emergency Information and Instructions for Public and News Media

Objective 5: Operate**Capability Target 5.4: Traffic and Access Control**

In summary, the status of DHS/FEMA capability targets for this location are as follows:

- a. MET: 1.1, 1.2, 1.4, 1.5, 1.6, 1.7, 2.1, 2.2, 3.1, 3.2, 3.3, 5.4
- 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

Pointe Coupee Parish EOC**Objective 1: Emergency Management Operations****Capability Target 1.1: Mobilization****Capability Target 1.2: Direction and Control****Capability Target 1.4: Protective Action Decisions for the Plume Phase****Capability Target 1.5: Protective Action Decisions Implementation for the Plume Phase****Capability Target 1.6: Protective Action Decisions for the Post-Plume Phase****Capability Target 1.7: Protective Action Decisions Implementation for the Post-Plume Phase****Objective 2: Exposure Control****Capability Target 2.1: Emergency Worker Exposure Control Decision-Making Process****Capability Target 2.2: Emergency Worker Exposure Management****Objective 3: Alert and Notification****Capability Target 3.1: Communication****Capability Target 3.2: Alert and Notification to the Public****Capability Target 3.3: Emergency Information and Instructions for Public and News Media****Objective 5: Operate****Capability Target 5.4: Traffic and Access Control**

In summary, the status of DHS/FEMA capability targets for this location are as follows:

- a. MET: 1.1, 1.2, 1.4, 1.5, 1.6, 1.7, 2.1, 2.2, 3.1, 3.2, 3.3, 5.4

- 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

West Baton Rouge Parish EOC

Objective 1: Emergency Management Operations

Capability Target 1.1: Mobilization

Capability Target 1.2: Direction and Control

Capability Target 1.4: Protective Action Decisions for the Plume Phase

Capability Target 1.5: Protective Action Decisions Implementation for the Plume Phase

Capability Target 1.6: Protective Action Decisions for the Post-Plume Phase

Capability Target 1.7: Protective Action Decisions Implementation for the Post-Plume Phase

Objective 2: Exposure Control

Capability Target 2.1: Emergency Worker Exposure Control Decision-Making Process

Capability Target 2.2: Emergency Worker Exposure Management

Objective 3: Alert and Notification

Capability Target 3.1: Communication

Capability Target 3.2: Alert and Notification to the Public

Capability Target 3.3: Emergency Information and Instructions for Public and News Media

Objective 5: Operate

Capability Target 5.4: Traffic and Access Control

In summary, the status of DHS/FEMA capability targets for this location are as follows:

- a. MET: 1.1, 1.2, 1.4, 1.5, 1.6, 1.7, 2.1, 2.2, 3.1, 3.2, 3.3, 5.4
- 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

West Feliciana Parish EOC

Objective 1: Emergency Management Operations

Capability Target 1.1: Mobilization

Capability Target 1.2: Direction and Control

Capability Target 1.4: Protective Action Decisions for the Plume Phase

Capability Target 1.5: Protective Action Decisions Implementation for the Plume Phase

Capability Target 1.6: Protective Action Decisions for the Post-Plume Phase

Capability Target 1.7: Protective Action Decisions Implementation for the Post-Plume Phase

Objective 2: Exposure Control

Capability Target 2.1: Emergency Worker Exposure Control Decision-Making Process

Capability Target 2.2: Emergency Worker Exposure Management

Objective 3: Alert and Notification

Capability Target 3.1: Communication

Capability Target 3.2: Alert and Notification to the Public

Capability Target 3.3: Emergency Information and Instructions for Public and News Media

Objective 5: Operate

Capability Target 5.4: Traffic and Access Control

In summary, the status of DHS/FEMA capability targets for this location are as follows:

a. MET: 1.1, 1.2, 1.4, 1.5, 1.6, 1.7, 2.1, 2.2, 3.1, 3.2, 3.3, 5.4

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

EAS Radio Station

Objective 3: Alert and Notification

Capability Target 3.2: Alert and Notification to the Public

In summary, the status of DHS/FEMA capability targets for this location are as follows:

- a. MET: 3.2
- 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

Louisiana State Sampling Development Plan

Objective 1: Emergency Management Operations

Capability Target 1.6: Protective Action Decisions for the Post-Plume Phase

Capability Target 1.7: Protective Action Decisions Implementation for the Post-Plume Phase

Objective 4: Detect, Measure, Sample, Analyze, and Assess

Capability Target 4.6: Post-Plume Phase Sampling Plan and Development and Analysis

In summary, the status of DHS/FEMA capability targets for this location are as follows:

- a. MET: 1.6, 1.7, 4.6
- 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

American Radiation Services Laboratory

Objective 2: Exposure Control

Capability Target 2.2: Emergency Worker Exposure Management

Objective 4: Detect, Measure, Sample, Analyze, and Assess

Capability Target 4.4: Laboratory Operations



In summary, the status of DHS/FEMA capability targets for this location are as follows:

- a. MET: 2.2, 4.4
- 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: Exercise Timeline

Emergency Classification Level or Event	Time Declared by Utility	Time That Notification Was Received or Action Was Taken								
		State EOC	LDEQ HQ	EOF	JIC	EBRP EOC	WBRP EOC	EFP EOC	WFP EOC	PCP EOC
Alert	832	842	842	853	833	842	842	842	842	842
Site Area Emergency (SAE)	1005	1012	1011	1006	1010	1010	1010	1010	1011	1010
General Emergency (GE)	1114	1122	1122	1114	1124	1122	1122	1122	1123	1122
Rad. Release Started	937	937	938	937	937	944	946	937	938	937
Rad. Release Terminated										
Facility Declared Operational		942	842	1023	935	930	905	931	939	909
Declaration of State of Emergency					1057	1022	1002	1101	1107	1053
Exercise Terminated		1326	1326	1326			1250	1300	1255	1330
Early Precautionary Action Decisions:	Siren/Notification Type and Time:									
schools evacuation						855		842	1122	1045
Protective Action Decisions (PADs):	Time of Siren Activation:									
Evacuate 2 mile radius & 5 miles downwind, remainder of EPZ monitor & prepare	1142	1132			1132	1131	1131	1132	1130	1131
EAS Messages and Times:	EAS Message Description:									
Scenario 6	1147	1147			1147	1147	1145		1147	1147
KI Administration Decision		1112		1112	1228	1154	1215	1225	1230	1146

Appendix B: Participating Organizations

Participating Organizations

Federal Organizations
FEMA Region 6
U.S. Nuclear Regulatory Commission
State Organizations
Louisiana Governor’s Office of Homeland Security and Emergency Preparedness
Louisiana Department of Environmental Quality
Louisiana Department of Health
Louisiana State Police
Louisiana National Guard
Louisiana Department of Agriculture and Forestry
Louisiana Department of Transportation and Development
LSU Agriculture Center, Agriculture Extension Office
Risk Jurisdictions
East Feliciana Parish Office of Homeland Security & Emergency Preparedness
East Feliciana Parish Sheriff’s Office
East Feliciana Parish 911 Center Communications
East Feliciana Parish Police Jury
East Feliciana Parish Council on Aging
East Feliciana Parish School Board
West Feliciana Parish Office of Homeland Security & Emergency Preparedness
West Feliciana Parish Sheriff’s Office
West Feliciana Parish Fire and Emergency Medical Services



St, Francisville Mayor
St Francisville Police Department
West Feliciana Parish Council of Aging
West Feliciana Parish Health Department
St Francisville Hospital
East Baton Rouge Parish Mayor's Office of Homeland Security & Emergency Preparedness
Baton Rouge Fire Department
East Baton Rouge Parish Sheriff's Department
Baton Rouge Police Department
West Baton Rouge Parish Office of Homeland Security & Emergency Preparedness
West Baton Rouge Parish Fire Department
West Baton Rouge Parish Sheriff Office
West Baton Rouge Parish Schools
West Baton Rouge Parish Animal Control
West Baton Rouge Parish 911 Dispatch Center
Pointe Coupee Parish Office of Homeland Security & Emergency Preparedness
Pointe Coupee General Hospital
Pointe Coupee Home Health & Hospice
Pointe Coupee Parish Council on Aging
Pointe Coupee Parish School Board
Pointe Coupee Parish 911 Center Communications
Pointe Coupee Parish Fire Protection District No. 5
Private Organizations
Entergy Operations, Inc.
WJBO Radio Station

Appendix C: Planning and Evaluation Team

Planning Team

Planners		
Title/Position	Name	Agency
Regional Assistance Committee Chair	Oscar Martinez	FEMA Region 6
Federal Planning Team Lead Senior Site Specialist	Timothy Pflieger	FEMA Region 6
State Planning Team Lead Environmental Scientist 3	Jamie Dismukes	LDEQ
Licensee Planning Team Lead Emergency Preparedness Manager	Jack McCoy	RBS

Evaluation Team

Team Leaders and Evaluators		
Venue/Location	Evaluation Team/Team Lead	Agency
GOHSEP State EOC	Mike Howe * Tom Hegele	FEMA HQ ICF
LDEQ Headquarters	Miriam Weston	FEMA Region 2
LDEQ Headquarters at the EOF	Nan Williams * Jill Leatherman	FEMA HQ ICF
LDEQ Field Monitoring Team One	Greg Voss *	FEMA Region 7
LDEQ Field Monitoring Team Two	Timothy Pflieger *	FEMA Region 6
Joint Information Center	Lisa Rink * Syndi Buice	FEMA HQ FEMA Region 6



East Baton Rouge Parish EOC	Linda Gee * Larry Broockerd Cody McKown	FEMA Region 6 FEMA HQ FEMA Region 7
East Feliciana Parish EOC	Heather Wilson * Misty Chance LaShawn Halsey	FEMA Region 7 FEMA Region 6 FEMA HQ
Pointe Coupee Parish EOC	Elsa Lopez * Bridget Ahlgrim Alberto Sifuentes	FEMA Region 6 ICF FEMA Region 9
West Baton Rouge Parish EOC	Brad DeKorte * Ken Wierman Taneeka Hollins	FEMA Region 6 FEMA HQ FEMA Region 1
West Feliciana Parish EOC	Darren Bates * Melisa Ogrodnik Barbara Thomas	FEMA HQ FEMA Region 6 FEMA Region 1
EAS Radio Station WJBO	Timothy Pflieger *	FEMA Region 6
LA State Sampling Development Plan	Mike Howe * Ken Wierman	FEMA HQ FEMA HQ
American Radiation Services Laboratory	Mike Howe *	FEMA HQ
* Team Leader		

Appendix D: Acronyms and Abbreviations

Acronym	Description
AAC	Accident Assessment Coordinator
ACP	Access Control Point
ALARA	As Low As Reasonably Achievable
ARS	American Radiation Services
CED	Committed Effective Dose
CPM	Counts Per Minute
DAC	Dose Assessment Coordinator
DCFS	Department of Children and Family Services
DHS	Department of Homeland Security
DIL	Derived Intervention Level
DOE	Department of Energy
DOTD	Department of Transportation and Development
DRD	Direct Reading Dosimeter
DRL	Derived Response Level
EAL	Emergency Action Level
EAS	Emergency Alert System
EBRP	East Baton Rouge Parish
ECL	Emergency Classification Level
ED	Emergency Director
EFP	East Feliciana Parish
EMD	Emergency Management Director
EMS	Emergency Medical Services
ENF	Emergency Notification Form
EOC	Emergency Operations Center
EOF	Emergency Operations Facility
EPA	Environmental Protection Agency
EPD	Electronic Personal Dosimeter
EPZ	Emergency Planning Zone
ESF	Emergency Support Function
EW	Emergency Worker



Acronym	Description
FAA	Federal Aviation Administration
FDA	Food and Drug Administration
FEMA	Federal Emergency Management Agency
FMT	Field Monitoring Team
FRMAC	Federal Radiological Monitoring and Assistance Center
FTC	Field Team Coordinator
GE	General Emergency
GOHSEP	Louisiana Governor's Office of Homeland Security and Emergency Preparedness
HH&H	Home Health & Hospice
HHS	Health and Human Services
HOO	Headquarters Operations Officer
HQ	Headquarters
IPAWS	Integrated Public Alert and Warning System
IPX	Ingestion Phase Exercise
IRT	Initial Response Team
JIC	Joint Information Center
KI	Potassium Iodide
LANG	Louisiana National Guard
LDAF	Louisiana Department of Agriculture and Forestry
LDEQ	Louisiana Department of Environmental Quality
LDH	Louisiana Department of Health
LELAP	Louisiana Environmental Laboratory Accreditation
LSP	Louisiana State Police
LSU	Louisiana State University
LWIN	Louisiana Wireless Information Network
MDA	Minimum Detectable Activity
MOHSEP	Mayor's Office of Homeland Security and Emergency Preparedness
MP	Monitoring Point
NaI	Sodium Iodide
NIST	National Institute of Standards



Acronym	Description
NMF	Notification Message Form
NOUE	Notification of Unusual Event
NPP	Nuclear Power Plant
OHL	Operational Hotline
OP	Operating Procedure
ORO	Offsite Response Organizations
OSL	Optically Stimulated Luminescent
PA	Public Address
PAD	Protective Action Decision
PAG	Protective Action Guide
PAR	Protective Action Recommendation
PAS	Protective Action Section
PCP	Pointe Coupee Parish
PDAFN	Persons with Disabilities and Access and Functional Needs
PIO	Public Information Officer
POD	Point of Distribution
PPE	Personal Protective Equipment
PRD	Permanent Record Dosimeter
RACES	Radio Amateur Civil Emergency Services
RADEF	Radiological Defense
RAP	Radiological Assistance Program
RASCAL	Radiological Assessment System for Consequence Analysis
RBS	River Bend Station
REP	Radiological Emergency Preparedness
REP&R	Radiological Emergency Planning and Response
RER	Radiological Emergency Response
RPM	Radiological Emergency Preparedness Program Manual
SAE	Site Area Emergency
SEC	Louisiana Department of Environmental Quality's Secretary/Designee
SEOC	State Emergency Operations Center
SEL	Senior Emergency Operations Facility Liaison
SMRAP	Southern Mutual Radiological Assistance Plan



Acronym	Description
SO	Sheriff's Office
SOP	Standard Operating Procedure
SPOC	Single Point of Contact
TACP	Traffic and Access Control Point
TED	Total Effective Dose
TLD	Thermoluminescent Dosimeter
UCG	Unified Command Group
UE	Unusual Event
URI	Unified Radiological Assessment System for Consequence Analysis Interface
VOIP	Voice Over Internet Protocol
WBRP	West Baton Rouge Parish
WEA	Wireless Emergency Alerts
WFP	West Feliciana Parish

Appendix E: Extent of Play Agreement and Scenario

OBJECTIVES AND CAPABILITY TARGETS

1: EMERGENCY OPERATIONS MANAGEMENT

1.1. Mobilization

- ❖ Evaluation Criteria: Individuals with roles in support of emergency operations are identified, alerted, and mobilized in a timely manner. (NUREG-0654/FEMA-REP-1, Rev. 2: A.1, A.1.a, A.1.b, A.3, A.4, A.5, C.1, C.2, C.2.a, C.2.b, C.3, E.1, E.1.a, E.3, F.1.c, H.6, O.1)
- ❖ Locations: Louisiana State Emergency Operations Center (SEOC), Louisiana Department of Environmental Quality (LDEQ) Headquarters (LDEQ HQ), Emergency Operations Facility (EOF), Joint Information Center (JIC), East Baton Rouge Parish EOC, East Feliciana Parish EOC, West Baton Rouge EOC, West Feliciana Parish EOC, Pointe Coupee EOC.
- ❖ Extent of Play
 - LDEQ players will be pre-staged on the 10th of LDEQ Headquarters.
 - Subject to scenario and time constraints, LDEQ will begin fully mobilizing as early as UE.
 - Emergency personnel will be pre-staged for Day 2 (October 19, 2022) activities. These activities will be demonstrated at a tabletop discussion to be held at the LDEQ Galvez Conference Center located at 602 N. Fifth Street, Baton Rouge, LA 70802. Affected parishes will be represented; other parishes from the 50 mile radius of RBS will be encouraged to participate. Some federal agencies will participate in the tabletop as part of the National Response Plan. State agencies will coordinate their activities with the federal agencies to the extent needed; however, the interplay between the State and the federal agencies will not be evaluated.

Laboratory Mobilization will occur in an out-of-sequence demonstration on October 20, 2022, at 9 AM.

Mobilization of Field Monitoring Teams (FMTs) will occur on Day 1 (October 18, 2022).



- ❖ Level 2 Findings – None
- ❖ Core Capabilities: Operational Coordination

1.2. Direction and Control

- ❖ Evaluation Criteria: Individuals in leadership roles provide direction and control to the portion of the overall response effort for which they are responsible. (NUREG-0654/FEMA-REP-1, Rev. 2: A.1, A.1.a, A.1.b, A.1.c, A.2, A.3, A.5, C.2, C.2.a, C.2.b, C.3, D.4, E.1, H.6, O.1)
- ❖ Locations: LDEQ HQ, Louisiana State Emergency Operations Center (SEOC), LDEQ EOF, East Feliciana Parish EOC, West Feliciana Parish EOC, West Baton Rouge Parish EOC, East Baton Rouge Parish EOC, Pointe Coupee Parish EOC
- ❖ Extent of Play:
- ❖ Level 2 Findings: – None
- ❖ Core Capabilities: Operational Coordination; Environmental Response/Health and Safety

1.3. Protective Action Recommendations

- ❖ Evaluation Criteria: Appropriate PARs are selected based on available information and other factors. (NUREG-0654/FEMA-REP-1, Rev. 2: D.4, J.7, J.8, J.8.b, J.9, O.1)
- ❖ Location: Louisiana State Emergency Operations Center (SEOC), Emergency Operations Facility (EOF)
- ❖ Extent of Play:
 - The LDEQ EOF controller may inject simulated field monitoring data to the Accident Assessment Coordinator for the purpose of dose projection validation; this will only be utilized if the offsite release timeline would cause a large delay in dose assessments capabilities to validate dose projections.
 - If the scenario does not warrant a discussion on protective actions for the protection of persons with disabilities and access/functional needs, then the criteria shall be accomplished through an interview with the evaluator.
 - In accordance with the State of Louisiana’s policy, KI is not considered for the general public.
- ❖ Level 2 Findings: – None
- ❖ Core Capabilities: Operational Coordination; Situational Assessment; Environmental Response/Health and Safety

1.4. Protective Action Decisions for the Plume Phase

- ❖ Evaluation Criteria: Appropriate PADs are based on available information for the plume phase. (NUREG-0654/FEMA-REP-1, Rev. 2: D.1.b, D.4, J.6, J.7, J.8, J.8.b, J.10, J.10.a, J.10.b, J.11.c-g, O.1)
- ❖ Locations: Louisiana SEOC, East Baton Rouge Parish EOC, East Feliciana Parish EOC, West Baton Rouge EOC, West Feliciana Parish EOC, Pointe Coupee EOC.
- ❖ Extent of Play:
 - If the scenario does not warrant a discussion on protective action decisions then the criteria shall be accomplished through an interview with the evaluator.
 - According to the State of Louisiana's policy, KI is not considered for the general public.
- ❖ Level 2 Findings: – None
- ❖ Core Capabilities: Operational Coordination; Situational Assessment; Environmental Response/Health and Safety

1.5. Protective Action Decision Implementation for the Plume Phase

- ❖ Evaluation Criteria: Implement decisions for those populations and areas subject to plume phase protective actions. (NUREG-0654/FEMA-REP-1, Rev. 2: A.4, C.2.a, G.1, J.11, J.11.a, J.11.b, J.11.c, J.11.e, J.11.g, O.1)
- ❖ Locations: Louisiana SEOC, LDEQ EOF, East Feliciana Parish EOC, West Feliciana Parish EOC, West Baton Rouge Parish EOC, East Baton Rouge Parish EOC, Point Coupee Parish EOC
- ❖ Extent of Play:
 - If the scenario does not warrant a discussion on protective action decisions for the protection of persons with disabilities and access/functional needs, then the criteria shall be accomplished through an interview with the evaluator.
 - If the scenario does not warrant a discussion on KI decisions, then the criteria will be accomplished through an interview with the evaluator.
 - In accordance with the State of Louisiana's policy, KI is not considered for the general public.
 - **Correction-on-the-spot** will be considered for the school bus driver interview at the discretion of and concurrence between the evaluator and the controller. Caution should be exercised to ensure that exercise play is not interrupted.
- ❖ Level 2 Findings: – None

- ❖ Core Capabilities: Operational Coordination; Environmental Response/Health and Safety

1.6. Protective Action Decisions for the Post-Plume Phase

- ❖ Evaluation Criteria: Appropriate PADs are based on available information for the post-plume phase. (NUREG-0654/FEMA-REP-1, Rev. 2: J.12, J.14, J.14.a-f, M.1, M.1.b, M.4, M.5, M.6, M.7, M.8, O.1)
- ❖ Locations: Louisiana SEOC, LDEQ EOF, and all affected parishes within the 50 mile Emergency Planning Zone (EPZ).
- ❖ Extent of Play:
 - Offsite Response Organizations (OROs) will not consider any areas outside the 50-mile EPZ.
 - This will be demonstrated via tabletop format on Day 2, October 19, 2022. Tabletop format will include parish authorities within the affected area of the incident and/or the 50 mile radius of the plant.
- ❖ Level 2 Findings: – N/A
- ❖ Core Capabilities: N/A

1.7. Protective Action Decision Implementation for the Post-Plume Phase

- ❖ Evaluation Criteria: Implement decisions for those populations and areas subject to post-plume phase protective actions. (NUREG-0654/FEMA-REP-1, Rev. 2: C.2, J.12, J.14, J.14.a-f, M.1, M.1.b, M.4, M.5, M.6, M.7, M.8, O.1)
- ❖ Locations: Louisiana SEOC, LDEQ EOF, and all affected parishes within the 50-mile Emergency Planning Zone (EPZ).
- ❖ Extent of Play:
 - OROs will not consider any areas outside the 50-mile EPZ.
 - This will be demonstrated via tabletop format on Day 2, October 19, 2022.
 - **Correction-on-the-spot** will be considered at these locations at the discretion of and concurrence between the evaluator and the controller. Caution should be exercised to ensure that exercise play is not interrupted. Correction-on-the-spot at Parish EOC's are limited to areas outside the EOC operations area (i.e., emergency worker briefings and issue of dosimetry in other rooms).
- ❖ Level 2 Findings: – N/A
- ❖ Core Capabilities: N/A

2. EXPOSURE CONTROL

2.1. Emergency Worker Exposure Control Decision-Making Process

- ❖ Evaluation Criteria: A decision-making process involving consideration of appropriate factors and necessary coordination is used to ensure that an exposure control system is in place for emergency workers and includes the use of radioprotective drugs and procedures to authorize emergency exposures in excess of the PAGs. (NUREG-0654/FEMA-REP-1, Rev. 2: C.2.c, H.11, K.2, K.2.b, K.3, K.3.a, M.1.b, M.8, O.1)
- ❖ Locations: Louisiana SEOC, LDEQ EOF, East Feliciana Parish EOC, West Feliciana Parish EOC, West Baton Rouge Parish EOC, East Baton Rouge Parish EOC, Point Coupee Parish EOC
- ❖ Extent of Play:
 - If the scenario does not warrant a discussion on the authorization to administer KI, then the criteria shall be accomplished through an interview with the evaluator.
 - If the scenario does not warrant a discussion on emergency worker (EW) exposure exceeding administrative limits, then the criteria shall be accomplished through an interview with the evaluator.
Note: Parish decision-makers receive recommendations for KI and EW exposure from the Louisiana SEOC.
- ❖ Level 2 Findings: – None
- ❖ Core Capabilities: Operational Coordination; Environmental Response/Health and Safety

2.2. Emergency Worker Exposure Control Management

- ❖ Evaluation Criteria: Emergency workers manage radiological exposure and dose in accordance with the plans/procedures. (NUREG-0654/FEMA-REP-1, Rev. 2: C.2.c, H.11, H.11.b, K.2.b, K.3, K.3.a, M.1.b, O.1)
- ❖ Locations: LDEQ EOF, LDEQ FMT 1, LDEQ FMT 2, East Feliciana Parish EOC, West Feliciana Parish EOC, West Baton Rouge Parish EOC, East Baton Rouge Parish EOC, Point Coupee Parish EOC, and ARS Laboratory.
- ❖ Extent of Play:
 - Area dosimetry will be used in all Parish EOCs.
 - TLD/OSLs will be available for all emergency workers. Simulated TLDs will be used in place of spare OSL or TLD badges when applicable.



- East Feliciana Parish, West Feliciana Parish, West Baton Rouge Parish, East Baton Rouge Parish, and Point Coupee Parish Traffic and Access Control Points personnel will be located at the parish EOCs, where they will demonstrate the criteria via interview. No travel to Traffic and Access Control Points will be performed.
- If the scenario does not warrant a discussion on either the authorization to administer KI or emergency worker (EW) exposure exceeding administrative limits, then the criteria shall be accomplished through an interview with the evaluator.
- **Correction-on-the-spot** will be considered at these locations at the discretion of and concurrence between the evaluator and the controller. Caution should be exercised to ensure that exercise play is not interrupted.
- ❖ **Level 2 Findings:** – None
- ❖ **Core Capabilities:** Operational Coordination; Environmental Response/Health and Safety

3. ALERT AND NOTIFICATION

3.1. Communications

- ❖ **Evaluation Criteria:** Communication processes, systems, and equipment are sufficient to support emergency operations. (NUREG-0654/FEMA-REP-1, Rev. 2: E.1.a, E.3, F.1, F.1.a, F.1.b, F.1.c, F.3, O.1)
- ❖ **Locations:** Louisiana SEOC, LDEQ HQ, LDEQ EOF, LDEQ FMT 1, LDEQ FMT 2, JIC, East Feliciana Parish EOC, West Feliciana Parish EOC, West Baton Rouge Parish EOC, East Baton Rouge Parish EOC, Point Coupee Parish EOC.
- ❖ **Extent of Play:**
 - The LDEQ Contract Radiation Laboratory will be evaluated out of sequence on October 20, 2022, at **TBD**, and any communication with it will be simulated.
 - Communications to the Southern Mutual Radiation Assistance Plan (SMRAP) states, except for TX and AR, will be simulated.
- ❖ **Level 2 Findings:** – None
- ❖ **Core Capabilities:** Operational Coordination; Operational Communications

3.2. Alert and Notification of the Public

- ❖ Evaluation Criteria: Alert and notification of the public is completed in a timely manner. (NUREG-0654/FEMA-REP-1, Rev. 2: E.2, E.4, E.5, F.3, O.1)
- ❖ Locations: WJBO Radio Station, SEOC, East Feliciana Parish EOC, West Feliciana Parish EOC, West Baton Rouge Parish EOC, East Baton Rouge Parish EOC, Point Coupee Parish EOC.
- ❖ Extent of Play:
 - Out of Sequence – Evaluation the WJBO Radio Station will be performed out of sequence on October 17, 2022, at 8 AM.
 - The address for WJBO is 5555 Hilton Ave. Baton Rouge, LA 70808
 - The alert and notification system, activation procedures will be demonstrated up to the point of activation. The siren activation will be simulated.
 - Backup route alerting – One route will be selected to demonstrate for the evaluator. The alert and notification will be read but not broadcasted.
- ❖ Level 2 Findings: – None
- ❖ Core Capabilities: Public Information and Warning

3.3. Emergency Information and Instructions for the Public and News Media

- ❖ Evaluation Criteria: Accurate emergency information and instructions are provided to the public and the news media in a timely manner. (NUREG-0654/FEMA-REP-1, Rev. 2: E.2, E.4, E.5, G.1, G.2, G.3, G.3.a, G.4, G.5, O.1)
- ❖ Locations:

Louisiana SEOC, JIC, East Feliciana Parish EOC, West Feliciana Parish EOC, West Baton Rouge Parish EOC, East Baton Rouge Parish EOC, Point Coupee Parish EOC.
- ❖ Extent of Play:
 - Utility and State representatives will demonstrate the ability to provide emergency information and instructions to the public consistent with the scenario.
 - The SEOC does not disseminate subsequent messages to the public. All messages should come through the JIC.
 - News media will not be present. Selected personnel will simulate the role of reporters asking questions during briefings.



- Controllers will inject public phone team messages, media phone team messages and news briefing messages.
- Rumor control will be demonstrated at the JIC.
- All subsequent messages disseminated by the Louisiana SEOC will be announced by the GOHSEP representative.
- On Day 2, October 19, 2022, information and instructions to the public will be limited to press releases. Mock media/press briefings will not be conducted.
- ❖ Level 2 Findings: – None
- ❖ Core Capabilities: Public Information and Warning

4. DETECT, MEASURE, SAMPLE, ANALYZE, AND ASSESS

4.1. Field Monitoring Teams Management

- ❖ Evaluation Criteria: FMTs are managed to obtain information to help characterize the release, locate and track the airborne radiological plume, and control contamination. (NUREG-0654/FEMA-REP-1, Rev. 2: H.11, H.13, I.5, I.6, I.9, I.10, M.7, M.8, O.1)
- ❖ Locations: LDEQ EOF
- ❖ Extent of Play:
 - **Correction-on-the-spot** will be considered at these locations at the discretion of and concurrence between the evaluator and the controller. Caution should be exercised to ensure that exercise play is not interrupted.
- ❖ Level 2 Findings: – None
- ❖ Core Capabilities: Environmental Response/Health and Safety

4.2. Plume Phase Measurements and Sampling

- ❖ Evaluation Criteria: FMTs make, record, and report measurements of ambient radiation to appropriate authorities; radioiodine and particulate samples are collected. (NUREG-0654/FEMA-REP-1, Rev. 2: H.9, H.11, H.11.a, H.11.b, H.12, H.13, I.2, I.5, I.6, I.7, I.8, I.9, I.10, O.1)
- ❖ Locations: LDEQ FMT 1, LDEQ FMT 2
- ❖ Extent of Play:
 - Charcoal cartridges will be used instead of silver zeolite.

- LDEQ FMT's will not don anti-contamination suits during the exercise. Anti-contamination suits are available in field team kits. Proper donning and doffing technique will be demonstrated by one member, either prior to deployment or following termination of the exercise. FMT's will don gloves and booties during the exercise.
- Correction-on-the-spot will be considered at these locations at the discretion of and concurrence between the evaluator and the controller. Caution should be exercised to ensure that exercise play is not interrupted. FMT data, if required, will be provided by controller inject.
- ❖ Level 2 Findings: – None
- ❖ Core Capabilities: Environmental Response/Health and Safety

4.3. Post-Plume Phase Measurements and Sampling

- ❖ Evaluation Criteria: FMTs take measurements and samples to support assessment of the ingestion exposure pathway, and to support reentry, relocation, and return decisions. (NUREG-0654/FEMA-REP-1, Rev. 2: H.11, H.11.a, H.11.b, H.12, H.13, I.2, I.5, I.6, I.8, M.7, O.1)
- ❖ Locations: LDEQ FMT 1, LDEQ FMT 2
- ❖ Extent of Play:
 - This will be demonstrated out of sequence on Day 2, October 19, 2022.
 - Milk sampling will be demonstrated out of sequence on October 17, 2022 at 10 AM.
 - ***Correction-on-the-spot*** will be considered at these locations at the discretion of and concurrence between the evaluator and the controller.
- ❖ Level 2 Findings: – None
- ❖ Core Capabilities: Environmental Response/Health and Safety

4.4. Laboratory Operations

- ❖ Evaluation Criteria: The laboratory performs radiological analyses to support protective action decision-making. (NUREG-0654/FEMA-REP-1, Rev. 2: C.4, H.11, H.11.b, H.13, I.2, I.6, M.7, O.1)
- ❖ Locations: ARS Laboratory
- ❖ Extent of Play:
 - Will be demonstrated out of sequence on October 20, 2022, at 9 AM
 - The address for ARS is 2609 River Rd. Baton Rouge, LA 70767.

- A variety of representative samples that would be collected from the areas designated for field sampling will be presented during the demonstration.
 - An actual sample analysis will not be performed. One water sample will be carried through the process of preparation to the point of analysis.
 - Receiving, safe handling, and storage of samples will be demonstrated.
 - **Correction-on-the-spot** will be considered at these locations at the discretion of and concurrence between the evaluator and the controller. Caution should be exercised to ensure that exercise play is not interrupted. Correction-on-the-spot at Parish EOC's are limited to areas outside the EOC operations area (i.e., emergency worker briefings and issue of dosimetry in other rooms).
- ❖ **Level 2 Findings:** – None
 - ❖ **Core Capabilities:** Environmental Response/Health and Safety

4.5. Plume Phase Analysis and Dose Assessment

- ❖ **Evaluation Criteria:** Dose assessment considers all available information including plant conditions, environmental conditions, field monitoring data, sample analysis results, and dose projection calculations. (NUREG-0654/FEMA-REP-1, Rev. 2: A.3, H.13, I.6, I.8, I.10, K.3, O.1)
 - ❖ **Locations:** SEOC and LDEQ EOF.
 - ❖ **Extent of Play:**
 - If the scenario does not warrant a discussion on protective action decisions, then the criteria shall be accomplished through an interview with the evaluator.
 - According to the State of Louisiana's policy, KI is not considered for the general public.
- ❖ **Level 2 Findings:** – None
 - ❖ **Core Capabilities:** Environmental Response/Health and Safety

4.6. Post-Plume Phase Sampling Plan Development and Analysis

- ❖ **Evaluation Criteria:** Post-plume phase assessment considers all available information, including environmental conditions, field monitoring data, sample analysis results, and dose projection calculations. (NUREG-0654/FEMA-REP-1, Rev. 2: A.3, H.13, I.2, I.6, I.8, I.10, J.12, J.14.b, J.14.c, K.3, M.7, M.8, O.1)
- ❖ **Locations:** LDEQ EOF
- ❖ **Extent of Play:**

- The sampling plan development portion of the accident assessment activities will be demonstrated separately from the main tabletop activities. The demonstration will occur at the same time as the tabletop demonstration but will be located in a separate room. At least one Accident Assessment Coordinator, one Field Team Coordinator, and one Senior Technical Advisor will be involved in this process. A FRMAC representative may be present as a resource to provide advice, if necessary. Coordination with FRMAC will not be evaluated. Sampling plans developed during this demonstration will not be used for the tabletop discussions. A separate pre-written sampling plan will be injected to players at an appropriate time during the tabletop discussions. Accident assessment is an essential part of the State's response function at the tabletop and is integrated in the technical decision-making aspect of the demonstration.
- The data produced during this demonstration will not be used for making recommendations and decisions during the tabletop. A separate pre-developed set of data will be injected by controllers for the demonstration of sampling plan development and the development of recommendations and decisions during Day 2 (October 19, 2022) activities.
- ❖ Level 2 Findings: – None
- ❖ Core Capabilities:

5. OPERATE

5.4. Traffic and Access Control

- ❖ Evaluation Criteria: Appropriate traffic and access control is established. Accurate instructions are provided to traffic and access control personnel. (NUREG-0654/FEMA-REP-1, Rev. 2: H.12, J.8, J.8.b, J.10, J.10.a, J.11.c, J.11.e, J.11.f, J.14.d, J.14.e, M.1.b, O.1)
- ❖ Locations: Louisiana EOC, JIC, East Feliciana Parish EOC, West Feliciana Parish EOC, West Baton Rouge Parish EOC, East Baton Rouge Parish EOC, Point Coupee Parish EOC.
- ❖ Extent of Play:



- This may be demonstrated out-of-sequence. One traffic and access control staff person will demonstrate knowledge of their roles and responsibility by discussion with the evaluator. The discussion will be at or near the EOC. Travel to the traffic and access control point will not be demonstrated. If the scenario does not warrant this discussion at a location, the controller will inject data to stimulate a discussion.
- A controller inject will be used to initiate the demonstration for this criterion. The inject will occur during the evacuation and it will be on an evacuation route. It will trigger the re-routing of traffic and the counties will coordinate this re-routing with the JIC in order to communicate the alternate route to evacuees that are leaving the area. No impediment will actually occur; however, the situation and solution will be discussed in the appropriate EOC. Clearing of the impediment will not occur prior to demonstration of the re-routing process that includes coordination with the JIC.
- **Correction-on-the-spot** will be considered during the interview with Traffic and Access Control personnel at the discretion of and concurrence between the evaluator and the controller. Caution should be exercised to ensure that exercise play is not interrupted. Correction-on-the-spot at Parish EOC's are limited to areas outside the EOC operations area (i.e., emergency worker briefings and issue of dosimetry in other rooms).
- ❖ **Level 2 Findings:** – None
- ❖ **Core Capabilities:** Operational Coordination; On-Scene Security, Protection, and Law Enforcement

GENERAL EXTENT-OF-PLAY (EOP):

- A. With regard to last minute additions or changes to any previously approved Extent-of-Play, all suggested changes must be forwarded to the RAC Chair for approval.
- B. The goal of all offsite response organizations (ORO) is to protect the health and safety of the public. This goal is achieved through the execution of appropriate plans and procedures. It is recognized that situations may arise that could limit the organizations in the exact execution of these plans and procedures.



- C. In the event of an unanticipated situation, OROs are permitted to exercise flexibility in the implementation of their plans and procedures in order to successfully achieve the objective of protection of public health and safety and protection of the environment.
- D. As a statement of fact, no ORO will deliberately deviate from its plans and procedures with the intent of avoiding responsibility.

REFERENCES:

Radiological Emergency Preparedness Program Manual - FEMA P-1028 / December 2019

SCENARIO NARRATIVE

Equipment out of service:

- RHR B tagged out due to motor damage (two days into LCO's 3.5.1 A and 3.6.2.3A). Motor is disassembled. Expected return 2 days.
- Stator cooling water pump B tagged out due to a failed bearing.
- CCS pump C tagged out for seal repair.

0730 Initial drill activities

0750 The division 1 line fill pump trips. LPCS and RHR A will be rendered inoperative. LCO 3.5.1H will require LCO 3.0.3 entry which will require the crew to be in Mode 3 within 13 hours. The crew should activate the OCC and begin making preparations for a normal shutdown of the unit.

0820 Stator water cooling pump A trips. In response, the crew will insert a manual reactor scram which results in an ATWS with power >5%. The running CRD pump B trips and the standby CRD pump A won't develop oil pressure due to a failed pressure permissive switch. The crew will be allowed to restore CRD pump A by repairing the switch. The SLC pump A suction valve will not open and the SLC pump B has a sheared shaft. The ATWS condition will result in the crew declaring an **ALERT on SA6.1**. The crew will experience difficulties with control rod insertion until they have restored CRD pump A. Fuel damage will occur and radiation levels will start rising in the drywell as a result. A release below federal limits is occurring. The ERO will be activated and assume their normal duties.

0950 A rupture occurs in main steam line A. The A main steam line inboard and outboard isolation valves will fail to isolate. The crew will attempt to isolate the A main steam line with B21-FO98A (main steam line A shutoff valve). When operated, the breaker will trip. Steam tunnel temperatures rapidly rise above 200 degrees. This will result in declaration of a **SITE AREA EMERGENCY on FS1.1 (CNB2 or CNB9 and RCB2)**. Radiation levels in the main steam tunnel and turbine building will begin to rise. A release to the public is occurring.

1100 Due to a combination of issues with injection sources into the RPV, reactor water level will be lost. Condensate filter demineralizers clog. This results in a loss of feed water. The HPCS pump will trip. The RHR C pump will trip. The RHR A pump will run but has a sheared shaft. The LPCS injection valve fails to open. This will eventually result in reactor water level 10 lowering below -162" and a **GENERAL EMERGENCY** will be declared **on FG1.1 (CNB2 or CNB9 and RCB1 or RCB2 or RCB5 and FCB2)** and **PAR scenario 6** will be issued. Note: an optional coolant leak in the drywell has been planned in case it is needed to aid in lowering reactor water level to meet the EAL conditions. If the optional coolant leak is utilized a 1.68 psid drywell signal will be received. A release to the public is occurring.

1135 LPCS injection valve will be opened manually allowing the crew to restore reactor water level.

1200 The breaker will be swapped on B21-F098A (EHS-MCC2H breaker 4A) to allow operation of the MOV or the breaker handle will be replaced which will isolate the release to the environment.

1300 Termination of exercise.



EXERCISE TIMELINE

Event #	Date	Estimated Time	Event	Expected Actions
1	10/18	0730	Initial Drill Activities Message: 1.1 Crew Brief Message: 1.2 Initial Drill Announcement	MCR crew walks down panels and assumes the shift.
2	10/18	0750	Division 1 line fill pump trip.	MCR crew should enter tech specs which will require plant shutdown within 13 hours. They should make notifications, activate the OCC and make preparations to shutdown the plant. They should dispatch an SNEO to visually inspect the line fill pump breaker and the pump itself.

Event #	Date	Estimated Time	Event	Expected Actions
3	10/18	0820	Emergency Classification: Alert Trip of stator cooling water pump A. ALERT SA6.1 EAL: SA6 Alert SA6.1 Objectives(s): A1, B1, B2, B4, D1, E1, E3 Message: 3.1 Alert Classification Contingency Message: 3.2 Plant Announcement Message: 3.3 Met Data Message: 3.4 ERDS Verification	Crew should insert a manual reactor scram which will result in an ATWS condition. A1 - Demonstrate the ability of the Emergency Director to provide overall direction (command and control) by initiating, coordinating and implementing timely and effective actions during the event. B1 - Demonstrate the ability of the normal staff complement to perform the functions of the on-shift ERO. B2 - Demonstrate the Emergency Director's ability to immediately and unilaterally initiate any emergency response action, including providing protective action recommendations to authorities responsible for implementing offsite emergency measures. B4 - Demonstrate the performance of authority of the nondelegable responsibilities. D1 - Demonstrate the ability to recognize the initiating conditions for the EALs and to properly classify emergencies. E1 - Demonstrate the ability to notify the offsite response organizations (ORO) consistent with the classification scheme including the verification of messages in a timely manner. E2 - Demonstrate the ability to alert, notify and mobilize ERO personnel. E3 - Demonstrate the ability to provide the required content for the initial notification messages accurately within the required timeframes.



Event #	Date	Estimated Time	Event	Expected Actions
4	10/18	0821	CRD pump A restoration activities and SLC Pump malfunction diagnosis/repair attempts Message: 4.1 SLC A Suction MOV, C41-MOVF031A Message: 4.2 SLC pump B sheared shaft Message: 4.3 Alternate SLC Injection EOP-005 Enclosure 15 Message: 4.4 CRD pump A RDS-PS3A failure Message: 4.5 Verify Scram Discharge Volume Vents/Drains Open	Repair teams will work toward restoration/repair of CRD and SLC systems
5	10/18	0840	Activation of the ERO to emergency response facilities. Objectives(s): E2 Message: 5.1 OSC Activation Message: 5.2 ERO Activation	E2 - Demonstrate the ability to alert, notify and mobilize ERO personnel.
Event #	Date	Estimated Time	Event	Expected Actions
6	10/18	0950	Emergency Classification: Site Area Emergency Main steam line A rupture. SAE on FS1.1 FPB EAL: FS1 SAE CNB9 FPB EAL: FS1 SAE RCB2 Objectives(s): A1, B4, D1, E1, E3 Message: 6.1 SAE Contingency Classification Message: 6.2 Simulated PA Accountability Message: 6.3 Plant Announcement w/o PA evacuation Message: 6.4 Met Data	Crew should attempt to isolate MSL A. A1 - Demonstrate the ability of the Emergency Director to provide overall direction (command and control) by initiating, coordinating and implementing timely and effective actions during the event. B4 - Demonstrate the performance of authority of the nondelegable responsibilities. D1 - Demonstrate the ability to recognize the initiating conditions for the EALs and to properly classify emergencies. E1 - Demonstrate the ability to notify the offsite response organizations (ORO) consistent with the classification scheme including the verification of messages in a timely manner. E3 - Demonstrate the ability to provide the required content for the initial notification messages accurately within the required timeframes.
7	10/18	0951	Main Steam Line A fails to isolate Message: 7.1 B21-F098A MAIN STEAM SHUTOFF VALVE breaker trips Message: 7.2 A MSIV's Fail to Close	



Event #	Date	Estimated Time	Event	Expected Actions
8	10/18	1100	<p>Emergency Classification: General Emergency Condensate demineralizers become clogged resulting in a total loss of condensate/feed water. RWL lowers below -162". GE on FG1.1</p> <p>FPB EAL: FG1 GE CNB9 FPB EAL: FG1 GE FCB2 FPB EAL: FG1 GE RCB2 Objectives(s): A1, B4, D1, E1, E3 Message: 8.1 GE Classification Contingency Message: 8.2 PAR Contingency Message: 8.3 Plant Announcement Message: 8.4 Met Data</p>	<p>Crew should pursue injections sources to restore and maintain RWL.</p> <p>A1 - Demonstrate the ability of the Emergency Director to provide overall direction (command and control) by initiating, coordinating and implementing timely and effective actions during the event.</p> <p>B4 - Demonstrate the performance of authority of the nondelegable responsibilities.</p> <p>D1 - Demonstrate the ability to recognize the initiating conditions for the EALs and to properly classify emergencies.</p> <p>E1 - Demonstrate the ability to notify the offsite response organizations (ORO) consistent with the classification scheme including the verification of messages in a timely manner.</p> <p>E3 - Demonstrate the ability to provide the required content for the initial notification messages accurately within the required timeframes.</p>
9	10/18	1101	<p>Restoration attempts when RPV level lowers < -162"</p> <p>Message: 9.1 RHR pump B tagout removal (unsuccessful) Message: 9.2 HPCS pump trip Message: 9.3 RHR C Pump Mechanically Bound Message: 9.4 RHR A pump sheared shaft Message: 9.5 RCIC Overspeed Trip (Cannot Reset) Message: 9.6 Enclosure 6 (Injection into RPV with CNS) Message: 9.7 E12-F094 Fails to open (EOP Encl 22) Message: 9.8 EOP Enclosure 32 Message: 9.9 LPCS injection valve fails to open</p>	



Event #	Date	Estimated Time	Event	Expected Actions
10	10/18	1135	LPCS injection valve opened. RWL restored.	
11	10/18	1200	B21-F098A closed, release stopped.	
12	10/18	1300	Termination of drill activities. Message: 12.1 Concurrence of Scenario Termination Message: 12.2 Plant Announcement for Scenario Termination	

Appendix F: Improvement Plan

This Improvement Plan has been developed as a result of the River Bend Station Ingestion Pathway Exercise conducted on October 18-19, 2022.

Capability Target	Core Capabilities	Issue/Summary	Corrective Action	Primary Responsible Organization	Organization POC	Start Date	Completion Date
3.3	Public Information and Warning	53-22-3.3-001 The media release drafted by the PIO referenced open shelters for the public following decontamination at the reception centers. The media release was reviewed and approved by the Acting Mayor-President, disseminated to the JIC at 1033. As there were currently no shelters that had been opened, the media release information was inaccurate.	The issue was identified by the FEMA evaluator. Redemonstration was discussed. The PIO discussed modifications of the media release with the Acting Emergency Management Director. They agreed to a revision of the media release to remove the section referencing shelters and disseminated the revised media release to the JIC at 1042.	East Baton Rouge Parish	n/a	10/18/2022	10/18/2022



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