



River Bend Station

# **After Action Report/ Improvement Plan**

Drill Date – October 24-25, 2017

Radiological Emergency Preparedness (REP) Program



**FEMA**

*Published December 7, 2017*

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**After Action Report/Improvement Plan**  
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# River Bend Station After Action Report/Improvement Plan

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## EXECUTIVE SUMMARY

On October 24, 2017, an out of sequence Reception Center drill was conducted for the Waterford 3 Steam Electric Station (W3) and the River Bend Station (RBS). Also, on October 25, 2017, an out of sequence Medical Services drill was conducted for RBS. Personnel from the U.S. Department of Homeland Security/Federal Emergency Management Agency (DHS/FEMA) Region VI, evaluated all activities. The purpose of these drills was to assess the level of preparedness of local responders to react to simulated radiological emergencies at the RBS and W3 on October 24, 2017 and at RBS on October 25, 2017. The previous reception center drill at this location was conducted on June 11, 2008, and the previous medical drill at this location was conducted on October 28, 2015.

Personnel from the State of Louisiana, River Bend Station, Baton Rouge River Center, American Red Cross, East Baton Rouge Parish, West Feliciana Parish Hospital, and West Feliciana Parish Emergency Medical Service participated in the drills. Cooperation and teamwork of all the participants was evident during the drills and DHS/FEMA wishes to acknowledge these efforts.

This report contains the final evaluation of the out of sequence drills. The participants adequately demonstrated knowledge of their emergency response plans and procedures. There were no Level 1 or Level 2 Findings identified during the drills. One Plan Issue was identified during the drills.

## SECTION 1: EXERCISE OVERVIEW

### 1.1 Exercise Details

**Exercise Name**

River Bend Station and Waterford 3 Steam Electric Station Drills

**Type of Exercise**

Drill

**Exercise Date**

October 24 and 25, 2017

**Program**

Department of Homeland Security/FEMA Radiological Emergency Preparedness Program

**Scenario Type**

Reception Center and Medical Services

### 1.2 Exercise Planning Team Leadership

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### 1.3 Participating Organizations

Agencies and organizations of the following jurisdictions participated in the River Bend Station and Waterford 3 drills:

#### State Jurisdictions

Louisiana Department of Environmental Quality  
Department of Children and Family Services

#### Risk Jurisdictions

West Feliciana Parish Emergency Medical Service  
West Feliciana Parish Hospital

#### Support Jurisdictions

Mayor's Office of Homeland Security and Emergency Preparedness  
Baton Rouge Fire Department  
Baton Rouge Council on Aging  
Baton Rouge Health Unit  
Baton Rouge Emergency Medical Service  
Capital Area Transit Service  
Baton Rouge Recreation and Park Commission  
Baton Rouge Police Department

#### Private Organizations

River Bend Station  
Waterford 3 Steam Electric Station  
American Red Cross  
Baton Rouge River Center



## **SECTION 2: EXERCISE DESIGN SUMMARY**

### **2.1 Exercise Purpose and Design**

The DHS/FEMA Region VI Office evaluated the drills on October 24-25, 2017 to assess the capabilities of local emergency preparedness organizations in implementing their Radiological Emergency Response Plans and Procedures to protect the public health and safety during radiological emergencies involving River Bend Station (RBS) and Waterford 3 Steam Electric Station (W3). The purpose of this report is to represent the results and findings on the performance of the offsite response organizations during a simulated radiological emergency.

### **2.2 Exercise Objectives, Capabilities and Activities**

Exercise objectives and identified Capabilities/REP Criteria selected to be exercised are discussed in the Exercise Plan (EXPLAN), Appendix D.

### **2.3 Scenario Summary**

The drill scenarios were developed to evaluate the response of drill participants to an incident at the River Bend Station (RBS) and Waterford 3 Steam Electric Station (W3) on October 24, 2017 requiring the monitoring, decontamination, reception and care of evacuees, and to an incident at the RBS on October 25, 2017 requiring the transportation, treatment, and decontamination of a radiologically contaminated injured individual. The drill scenarios provided for the evaluation of the ability of the Baton Rouge River Center to monitor, decontaminate, and provide reception and care for evacuees for W3 and RBS, and provided for the evaluation of the ability of the West Feliciana Parish Hospital and West Feliciana Parish Emergency Medical Service to transport and treat a contaminated injured individual for RBS.

## SECTION 3: ANALYSIS OF CAPABILITIES

### 3.1 Exercise Evaluation and Results

Contained in this section are the results and findings of the evaluation of all jurisdictions and functional entities that participated in the October 24 and 25, 2017 drills to test the offsite emergency response capabilities of state and local governments in the 10-mile Emergency Planning Zone surrounding the River Bend Station.

Each jurisdiction and functional entity was evaluated on the basis of its demonstration of criteria delineated in the exercise evaluation areas as outlined in the January 2016, Radiological Emergency Preparedness Manual. Detailed information on the exercise evaluation area criteria and the extent of play agreement used in this drill are found in Appendix D of this report.

### 3.2 Summary Results of Exercise Evaluation

The matrix presented in Table 3.1 on the following page, represents the status of all exercise evaluation area criteria that were scheduled for demonstration during this exercise by all participating jurisdictions and functional entities. Exercise criteria are listed by number and the demonstration status is indicated by the use of the following letters:

M - Met (No Findings assessed and no unresolved Findings from prior exercises)

L1- Level 1 Finding

L2 – Level 2 Finding

P – Plan Issue

N - Not Demonstrated



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**Table 3.1 – Exercise Evaluation – Criteria Met**

Date: 10/28/2015 Site: River Bend Station			
Location	Criteria Title	Criteria	Status
WFP EMS	Contaminated Injured Transport & Care	6d1	M
WFP EMS	EW Exposure Control Implementation	3a1	M
WFP EMS	Equipment and Supplies	1e1	M
WFP Hospital	Contaminated Injured Transport & Care	6d1	M
WFP Hospital	EW Exposure Control Implementation	3a1	M
WFP Hospital	Equipment and Supplies	1e1	M
BR River Center	Facilities	1b1	M
BR River Center	Equipment and Supplies	1e1	M
BR River Center	EW Exposure Control Implementation	3a1	M
BR River Center	Reception Center Operations	6a1	P
BR River Center	Congregate Care	6c1	M



### **3.3 Criteria Evaluation Summaries**

#### **3.3.1 Risk Jurisdictions**

##### **3.3.1.1 West Feliciana Parish Emergency Medical Service**

In summary, the status of DHS/FEMA criteria for the Risk jurisdiction is as follows:

- a. LEVEL 1 FINDINGS: NONE
- b. LEVEL 2 FINDINGS: NONE
- c. PLAN ISSUES: NONE
- d. PRIOR ISSUES – RESOLVED: NONE
- e. PRIOR ISSUES – UNRESOLVED: NONE

##### **3.3.1.4 West Feliciana Parish Hospital**

In summary, the status of DHS/FEMA criteria for the Risk jurisdiction is as follows:

- a. LEVEL 1 FINDINGS: NONE
- b. LEVEL 2 FINDINGS: NONE
- c. PLAN ISSUES: NONE
- d. PRIOR ISSUES – RESOLVED: NONE
- e. PRIOR ISSUES – UNRESOLVED: NONE

#### **3.3.2 Private Organizations**

##### **3.3.2.2 Baton Rouge River Center**

In summary, the status of DHS/FEMA criteria for the Private jurisdiction is as follows:

- a. LEVEL 1 FINDINGS: NONE
- b. LEVEL 2 FINDINGS: NONE
- c. PLAN ISSUES: 6a1

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ISSUE NO.: 53-17-6a1-P-01

**CRITERION:** The reception center facility has appropriate space, adequate resources, and trained personnel to provide monitoring, decontamination, and registration of evacuees.

**CONDITION:** The Personnel Decontamination Station was initially set up in an incorrect location. The Vehicle Monitoring team when asked how they would direct the drivers and occupants of the contaminated vehicles, were uncertain what instructions they would provide the drivers and occupants. Additionally, the Vehicle Monitoring team was not certain how the vehicle occupants would return to the reception center for personnel monitoring (i.e., escorted, etc.). Nor did they have instructions to provide the drivers' and occupants of the vehicles if they were directed to Memorial Stadium. Procedures do not direct the Capital Area Transit Service to provide a shuttle service for the Memorial Stadium.

**POSSIBLE CAUSE:** The current procedure does not provide adequate detailed instructions for station set up, drivers of contaminated vehicles, or use of the personnel monitoring form.

**REFERENCE:**

January 2016 REP Program Manual, Part III, Assessment Area 6, Sub-element 6.a.1  
NUREG-0654/FEMA-REP-1, A.3; C.4; J.10.h; J.12  
East Baton Rouge Parish Emergency Response Procedure for Reception Centers, Rev. 17  
East Baton Rouge Parish Emergency Response Procedure for Fire Department, Rev. 25

**EFFECT:** This could lead to possible confusion, delayed operations, and spread of contamination.

**RECOMMENDATION:** Revise procedures to include more detail to clarify where each station (vehicle monitoring, initial personnel monitoring, and personnel decontamination) should be set up. Revise procedures to include more details concerning instruction for drivers of contaminated vehicles. Revise procedures to include the Capital Area Transit Service's shuttle service for the Memorial Stadium.

- d. PRIOR ISSUES – RESOLVED: NONE
- e. PRIOR ISSUES – UNRESOLVED: NONE

## SECTION 4: CONCLUSION

Based on the results of the drills, the offsite radiological emergency response plans and preparedness for the State of Louisiana and the affected local jurisdictions are deemed adequate to provide reasonable assurance that appropriate measures can be taken to protect the health and safety of the public in the event of a radiological emergency. Therefore, 44 CFR Part 350 approval of the offsite radiological emergency response plans and preparedness for the State of Louisiana site-specific to River Bend Station and Waterford 3 Steam Electric Station will remain in effect.



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## APPENDIX A: IMPROVEMENT PLAN

<b>Issue Number: 53-17-6a1-P-01</b>		<b>Criterion: 6.a.1</b>
<b>ISSUE:</b> The Personnel Decontamination Station was initially set up in an incorrect location. The Vehicle Monitoring team when asked how they would direct the drivers and occupants of the contaminated vehicles, were uncertain what instructions they would provide the drivers and occupants. Additionally, the Vehicle Monitoring team was not certain how the vehicle occupants would return to the reception center for personnel monitoring (i.e., escorted, etc.). Nor did they have instructions to provide the drivers' and occupants of the vehicles if they were directed to Memorial Stadium. Procedures do not direct the Capital Area Transit Service to provide a shuttle service for the Memorial Stadium.		
<b>RECOMMENDATION:</b> Revise procedures to include more detail to clarify where each station (vehicle monitoring, initial personnel monitoring, and personnel decontamination) should be set up. Revise procedures to include more details concerning instruction for drivers of contaminated vehicles. Revise procedures to include the Capital Area Transit Service's shuttle service for the Memorial Stadium.		
<b>CORRECTIVE ACTION DESCRIPTION:</b>		
<b>CAPABILITY:</b>	<b>PRIMARY RESPONSIBLE AGENCY:</b>	
<b>CAPABILITY ELEMENT:</b>	<b>START DATE:</b>	
<b>AGENCY POC:</b>	<b>ESTIMATED COMPLETION DATE:</b>	

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## **APPENDIX B: EXERCISE EVALUATORS AND TEAM LEADERS**

DATE: 10/24/2017

SITE: River Bend Station and Waterford 3

LOCATION	TEAM LEADER	AGENCY
Baton Rouge River Center	Timothy Pflieger	FEMA R6

LOCATION	EVALUATOR	AGENCY
Baton Rouge River Center	Linda Gee	FEMA R6
Baton Rouge River Center	Timothy Pflieger	FEMA R6
Baton Rouge River Center	Nan Williams	FEMA R6

DATE: 10/25/2017

SITE: River Bend Station

LOCATION	TEAM LEADER	AGENCY
West Feliciana Parish Emergency Medical Service	Timothy Pflieger	FEMA R6
West Feliciana Parish Hospital	Nan Williams	FEMA R6

LOCATION	EVALUATOR	AGENCY
West Feliciana Parish Emergency Medical Service	Timothy Pflieger	FEMA R6
West Feliciana Parish Hospital	Linda Gee	FEMA R6
West Feliciana Parish Hospital	Nan Williams	FEMA R6



## APPENDIX C: ACRONYMS AND ABBREVIATIONS

Acronym	Description
ARC	American Red Cross
BREC	Baton Rouge Recreation
CATS	Capital Area Transit Service
DCFS	Department of Child and Family Services
DHS	Department of Homeland Security
DRD	Direct Reading Dosimeter
EMS	Emergency Medical Service
EOC	Emergency Operations Center
EW	Emergency Worker
EXPLAN	Exercise Plan
FEMA	Federal Emergency Management Agency
KI	Potassium Iodide
OIC	Officer In Charge
PPE	Personal Protective Equipment
RBS	River Bend Station
REA	Radiation Emergency Area
REP	Radiological Emergency Preparedness
RPT	Radiation Protection Technician
RSO	Radiation Safety Officer
TLD	Thermoluminescent Dosimeter
W3	Waterford 3 Steam Electric Station
WFP	West Feliciana Parish
WFPH	West Feliciana Parish Hospital



## **APPENDIX D: EXERCISE PLAN**

# STATE OF LOUISIANA OFF-SITE DRILL

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## OCTOBER 24, 2017

**Revision 2**

**September 25, 2017**

BATON ROUGE RIVER CENTER OUT OF SEQUENCE EVALUATION  
RECEPTION CENTER  
OCTOBER 24, 2017

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**DISCLAIMER**

Real life emergencies take precedence over demonstrations. In the case of an emergency, the demonstration will be rescheduled for a later date.

**REVISION LOG**

#	Date	Revision
0	8/21/17	Initial release
1	9/15/17	Added vehicle monitoring to criterion 6.a.1.
2	9/25/17	Added the demonstration is to fulfill requirement for both RBS and W3 in Introduction; removed 6.b.1; Added Pre-Staging of Equipment to 1.e.1.; Added Vehicle Monitoring Being Demonstrated Out-of-Sequence; added Congregate Care SAV at BREC Alsen Park



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**I. INTRODUCTION**

In the interest of assuring the health and safety of the general public near the River Bend Station, in the event of a radiological emergency, drills periodically conducts drills jointly with the Federal, State and local agencies.

This manual contains the scenario of activities and supporting data describing the East Baton River Center Offsite Reception Center.

This scenario was developed by postulating events that will require response by offsite organizations.

During this drill, the support organizations will respond to the simulated events and conditions that have been selected to provide the level of activity necessary to meet the scenario objectives.

Baton Rouge River Center, American Red Cross, East Baton Rouge Parish Fire Department, and East Baton Rouge Mayor's Office of Homeland Security Emergency Preparedness (MOHSEP), and Louisiana Department of Social Services will participate in this drill.

Drill participants will have no prior knowledge of the sequence of events. The drill scenario will allow those individuals and agencies assigned to respond during a radiological emergency to demonstrate their performance according to current emergency preparedness plans and procedures.

The scenario is a mechanism by which selected drill controllers will initiate and evaluate the activities of the drill participants. The individual drills will be initiated as shown below and each is expected to last approximately three hours.

Participating organizations are shown in Section IV, Guidelines, of this manual.

Please note that this drill will also serve as a demonstration for both River Bend Station, as well as, Waterford 3 Nuclear Power Plant, since it is a shared reception center between both plants.

**A. SCHEDULE**

**1. Tuesday, October 24, 2017**

08:00 Baton Rouge River Center Reception Center

13:00 Congregate Care Facility – BREC Alsen Park

**II. EXTENT OF PLAY**

**A. EVALUATION AREA 1: EMERGENCY OPERATIONS MANAGEMENT**

**Sub-Element 1.b – Facilities**

Criterion 1.b.1: Facilities are sufficient to support the emergency response.



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1. Location  
Baton Rouge River Center
2. Extent of Play
3. ARCAs  
None

**Sub-Element 1.e – Equipment and Supplies to Support Operations**

Criterion 1.e.1: Equipment, maps, displays, dosimetry, potassium iodide (KI) and other supplies are sufficient to support emergency operations.

4. Locations  
Baton Rouge River Center  
Extent of Play
  - a. Potassium iodide (KI) and maps will not be used at this location.
  - b. Necessary equipment to support operations, such as dosimeters, survey meters, etc., will be pre-staged at the reception center.
  - c. **Correction-on-the-spot** will be conducted at these locations at the discretion of and concurrence between the evaluator and the controller. Caution should be exercised to insure that exercise play is not interrupted.
5. ARCAs  
None

**B. EVALUATION AREA 3: PROTECTIVE ACTION IMPLEMENTATION**

**Sub-Element 3.a – Implementation of Emergency Worker Exposure Control**

Criterion 3.a.1: The OROs issue appropriate dosimetry and procedures, and manage radiological exposure to emergency workers in accordance with the plans and procedures. Emergency workers periodically and at the end of each mission read their dosimeters and record the readings on the appropriate exposure record or chart.

1. Locations  
Baton Rouge River Center  
Extent of Play



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- a. Area dosimetry may be used at the reception center.
- b. **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 insure that exercise play is not interrupted.

2. ARCAs

None

C. **EVALUATION AREA 6: SUPPORT OPERATIONS/FACILITIES**

**Sub-element 6.a – Monitoring, Decontamination, and Registration of Evacuees**

**Criterion 6.a.1: The reception center facility has appropriate space, adequate resources, and trained personnel to provide monitoring, decontamination, and registration of evacuees. (NUREG-0654/FEMA-REP-1, A.3; C.4; J.10.h; J.12)**

1. Locations

Baton Rouge River Center

2. Extent of Play

- a. Participants will be pre-staged at or near the reception center.
- b. The capability to monitor 20% of Protective Action Sections 1-14 of the 10-mile EPZ over a 12-hour period will be demonstrated. The population of these sections is 9,480. Twenty percent of this population is 1,896. To meet 20% requires a monitoring capability of 3 evacuees per minute.
- c. Per the REP Manual, a minimum of six evacuees will be monitored. Six people will simulate evacuees for the demonstration. At least one portal monitor will be set up and the six evacuees processed. One of the six will be simulated contaminated. One monitoring station for contaminated evacuees will be set up and the contaminated individual will be processed through decontamination. Handling of potentially contaminated personal belongings will be demonstrated by discussion.
- d. One vehicle will be monitored for contamination. The vehicle will not proceed to the segregated parking area after monitoring. The segregated parking area will not be set up to receive vehicles, but will be available for viewing and discussion.

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- e. Decontamination will be evaluated by demonstration and further discussion.
  - f. **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 insure that exercise play is not interrupted.
3. ARCAs
- None

**Sub-element 6.c – Temporary Care of Evacuees**

**Criterion 6.c.1: Managers of congregate care facilities demonstrate that the care centers have resources to provide services and accommodations consistent with American Red Cross planning guidelines. Managers demonstrate the procedures to assure that evacuees have been monitored for contamination and have been decontaminated as appropriate prior to entering congregate care facilities. (NUREG-0654/FEMA-REP-1; J.10.h; J.12)**

- 1. Location
  - 2. Extent of Play
    - a. A Staff Assisted Visit (SAV) will be performed for the congregate facility.
    - b. The SAV will take place at BREC Alsen Park, 1001 Old Rafe Meyer Road, Baton Rouge, LA
  - 3. ARCAs
- None

**D. GENERAL EXTENT-OF-PLAY (EOP)**

- 1. 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.
- 2. 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



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execution of these plans and procedures.

3. 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.
4. As a statement of fact, no ORO will deliberately deviate from its plans and procedures with the intent of avoiding responsibility.

E. **REFERENCES**

As indicated in the Extent-of-Play Agreement, the State of Louisiana requests the option to correct issues immediately as defined in FEMA REP Manual III-170. Acceptable locations/activities for "on-the-spot correction" are clearly indicated in the extent of play portion under each criterion.

**III. OBJECTIVES**

The following general objectives and guidelines have been developed for the Offsite Drills, which are scheduled as shown below.

- A. Baton Rouge River Center – October 24, 2017
1. Demonstrate the capability to alert and fully mobilize personnel for emergency facilities. Demonstrate the capability to activate and staff emergency facilities for emergency operations.
  2. Demonstrate the capability to continuously monitor and control radiation exposure to emergency workers.
  3. Demonstrate the adequacy of the equipment, procedures, supplies, and personnel of reception center responsible for monitoring, decontamination, and registration of evacuees.

**IV. GUIDELINES**

To define the scope and extent of participation by organizations and participants, the following guidelines are established in order to meet the objectives listed in Section II of this manual.

1. The offsite drills will be conducted as follows:
  - a) October 24, 2017
    - (1) Reception Center and Congregate Care facility
2. Participation is limited to Baton Rouge River Center personnel, American Red Cross, East Baton Rouge Parish Fire Department, and the Drill Control Team.



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3. All communications are preceded and ended with "THIS IS A DRILL."
4. A critique is conducted immediately following the termination of the drill.
5. Drill specific guidelines will be addressed in their individual appendices.

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**APPENDIX A**

**BATON ROUGE RIVER CENTER RECEPTION CENTER**



**BATON ROUGE RIVER CENTER OUT OF SEQUENCE EVALUATION  
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**(A)V. NARRATIVE SUMMARY**

An evacuation has been ordered for the area around River Bend and the general public is in the process of evacuating portions of the 10-mile EPZ. In this scenario evacuees are preceding to the reception center in East Baton Rouge Parish.

**(A)VI. SEQUENCE OF EVENTS**

TIME	EVENT	DRILL ACTIVITY
07:45 T= -0:15	Drill preparations are made.	The Drill Control Team assembles at the Baton Rouge River Center, Reception Center. Response personnel staged at or near the reception center
08:00 T= 0	Drill initiated by the Drill Control Team	Responders are briefed, outfitted and begin set-up of the center.
	Reception center stood up	An evacuee arrives at the Reception Center and monitoring procedures are initiated.
CC-1	The evacuee's vehicle is found to be contaminated.	Vehicle is moved to the impoundment area. Vehicle remains in the impoundment area.
CC-2 CC-3	An evacuee is found to be contaminated.	Decontamination measures are initiated.
CC-4	The contaminated evacuee is surveyed after decontamination procedures and is found to be clean.	The evacuee is released.
	Registration and shelter assignment activities are demonstrated.	
	Reception Center personnel make available shift change information.	
	Drill Terminated. Critique conducted	When all activities have been demonstrated, the drill will be terminated.

**RADIOLOGICAL EMERGENCY MEDICAL DRILL SCENARIO**

**FOR**

**RIVER BEND STATION**

**WEST FELICIANA PARISH HOSPITAL**

**AND**

**WEST FELICIANA PARISH EMS**

**October 25, 2017**

**RDRL-EP-17MS1DRIL Rev 0**

RIVER BEND STATION  
2017 MEDICAL EMERGENCY RESPONSE EVALUATED DRILL  
EVALUATION AREAS AND EXTENT-OF-PLAY (EOP) AGREEMENT & ONSITE OBJECTIVES

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RIVER BEND STATION  
2017 MEDICAL EMERGENCY RESPONSE EVALUATED DRILL  
EVALUATION AREAS AND EXTENT-OF-PLAY (EOP) AGREEMENT & ONSITE OBJECTIVES

## I PURPOSE

This simulated radiation medical emergency is being conducted in order to exercise the emergency medical response at River Bend Station and the primary medical support facility, West Feliciana Parish Hospital and West Feliciana Parish EMS. The basic objective is to assess the ability of the plant staff to respond effectively to a radiation medical emergency within the plant and to test the ability of hospital and emergency medical services to handle contaminated and injured patients.

## II PROPOSED SCHEDULE

DATE: October 25, 2017

TIME: 7:30 AM (Start time of River Bend Station onsite portion of medical drill)

~8:00 AM (Start time of ambulance arrival at River Bend)

**LOCATIONS:** River Bend Station & West Feliciana Parish Hospital

INJURY/ILLNESS: Fall victim conscious and bleeding

### III EXERCISE CONTROLLERS/EVALUATORS

Norman Tison                      Control Room                      (225) 381-2789

Rick Leasure                      Plant site (Radiological response)                      (225) 378-3310

Will White/Larry Meyer	Plant site (First Aid Team)/Ambulance	(225)252-2784 / (225)324-6949
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Gil Cosnett                      West Feliciana Parish Hospital                      1-856-261-5760

## EXERCISE OBSERVERS

Ji Wiley Hospital

### ONSITE PHONE NUMBERS

Shift Manager (OSM) (225) 381- 2776 --OSM/Communicator Console  
(225) 381- 2789

RP (225) 381- 2771

#### **IV EVALUATION AREAS AND EXTENT-OF-PLAY-OFFSITE**

##### **EVALUATION AREA 1: EMERGENCY OPERATIONS MANAGEMENT**

###### **Sub-element 1.e – Equipment and Supplies to Support Operations**

**Criterion 1.e.1: Equipment, maps, displays, monitoring instruments, dosimetry, potassium iodide (KI) and other supplies are sufficient to support emergency operation (NUREG-0654/FEMA-REP-1, H.7, 10; I.7, 8, 9; J.10.a, b, e; J.11, 12; K.3.a; K.5.b)**

###### **Locations**

West Feliciana Parish Hospital and West Feliciana Parish EMS

###### **Extent of Play**

In accordance with the scenario for this evaluation, the utility will provide the necessary dosimetry to the ambulance crew for the response to an onsite contaminated injured person. Upon entry to the site protected area, security will provide the "ambulance kit" to EMS personnel. Contents of the kit will include a dosimeter of legal record (DLR) and a 0-200 mR pocket dosimeter for each individual. The actual kit contents will not be issued as part of the drill. A drill controller will provide drill dosimetry to the medics after kit contents have been shown to the evaluator.

"Correction-on-the-spot" will be applicable for this demonstration.

##### **EVALUATION AREA 3: PROTECTIVE ACTION IMPLEMENTATION**

###### **Sub-element 3.a – Implementation of Emergency Worker Exposure Control**

**Criterion 3.a.1: The OROs issue appropriate dosimetry, KI, and procedures, and manage radiological exposure to emergency workers in accordance with the plans/procedures. Emergency workers periodically and at the end of each mission read their dosimeters and record the readings on the appropriate exposure record or chart. OROs maintain appropriate record-keeping of the administration of KI to emergency workers. (NUREG-0654/FEMA-REP-1, J.10.e; K.3.a, b; K.4)**

###### **Locations**

West Feliciana Parish Hospital and West Feliciana Parish EMS

###### **Extent of Play**

The ambulance crew should be knowledgeable on how to acquire dosimetry kits and potassium iodide (KI) during a declared emergency involving parish response. The ambulance crew will discuss the method of obtaining dosimetry kits and KI from the ambulance when an emergency has been declared at the nuclear power plant. The discussion can be accomplished by interview with the evaluator.

Hospital personnel will be issued dosimeters and DLRs at the hospital.

"Correction-on-the-spot" will be applicable for this demonstration.



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**EVALUATION AREA 6: SUPPORT OPERATION/FACILITIES**

**Sub-element 6.d--Transportation and Treatment of Contaminated Injured Individuals**

**Criterion 6.d.1: The facility/ORO has the appropriate space, adequate resources, and trained personnel to provide transport, monitoring, decontamination, and medical services to contaminated injured individuals. (NUREG-0654/FEMA-REP-1, F.2; H.10; K.5.a, b; L.1, 4)**

**Locations**

West Feliciana Parish Hospital and West Feliciana Parish EMS

**Extent of Play**

Upon receiving a request for offsite assistance, the ambulance will proceed to a designated pickup point. Crew members will receive a turnover of patient information from site first aid and radiation protection personnel. Two radiation protection personnel will accompany the patient to the hospital.

At the hospital, removal of the patient's clothing will be simulated. Decontamination will be demonstrated to the evaluators using methods contained in the hospital procedure. These methods could include soap and water, wipes, or tape. Intrusive bioassay samples will be simulated. No actual surgical procedures, X-ray, drawing of blood samples, etc. will be conducted.

"Correction-on-the-spot" will be applicable for this demonstration.

**River Bend Station Objectives**

See attached PERFORMANCE OBJECTIVES AND EVALUATION CRITERIA – RBS.

**GENERAL EXTENT-OF-PLAY (EOP):**

1. 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.
2. 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.
3. 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.
4. As a statement of fact, no ORO will deliberately deviate from its plans and procedures with the intent of avoiding responsibility.

**References:**

As indicated in the Extent-of-Play Agreement, the State of Louisiana requests the option to correct issues immediately as defined in FEMA REP Manual III-170. Acceptable locations/activities for "on-the-spot-correction" are clearly indicated in the extent of play portion under each criterion.



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**V PERFORMANCE OBJECTIVES AND EVALUATION CRITERIA**

	Program Elements	PERFORMANCE OBJECTIVES and General Evaluation Criteria	MED
B.8	Emergency Services Support Organizations	Demonstrate the ability to utilize onsite first aid / fire brigade personnel and to coordinate with required offsite emergency services (police, fire, ambulance, medical, hospital)	
	B.8.1	Appropriate offsite emergency services like law enforcement, fire, ambulance, medical and hospital care were contacted	
	B.8.2	Appropriate points of contact were identified for the requested support.	
	B.8.3	Security response was prompt in providing site access to the responding agency.	
	B.8.4	Fire brigade coordination and communications were appropriate (applicable to fire scenarios only).	
	B.8.5	Medical and First Responder Team coordination and communications were appropriate (applicable to medical scenarios only).	
	B.8.6	RP support was contacted promptly for scenarios involving radiological controls.	
	B.8.7	Dosimetry was properly issued to incoming responders.	
L.1	Hospital Response	Demonstrate the radiological capabilities of local and backup hospitals. (Criteria demonstrated by alternating one hospital/year)	
	L.1.1	Appropriate in-house notifications were made, including medical and radiological conditions of the victim, and staff assignments to support the emergency.	
	L.1.2	Required protective clothing was properly donned.	
	L.1.3	The radiological emergency area (REA) was properly set up for treatment of contaminated victims.	
	L.1.4	The REA staff/ambulance crew/RP technicians performed a clean transfer of the victim,, including documentation of radiological and medical conditions.	
	L.1.5	Ambulance and crew were properly monitored for contamination, and decontaminated if necessary, prior to being released.	
	L.1.6	Proper triage and medical treatment was performed as much as practical.	
	L.1.7	The victim's radiological condition and the dosimetry records of the RES staff were properly documented by the Buffer Zone Nurse.	
	L.1.8	Necessary samples from the victim were obtained and properly labeled.	
	L.1.9	Proper techniques were used to decontaminate victim without compromising their medical condition.	

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	L.1.10	Proper contamination control practices were demonstrated in transferring decontaminated victim from the REA.	
	L.1.11	Proper exit procedures were demonstrated by hospital staff entering and leaving the REA.	
	L.1.12	The REA and hospital staff were properly monitored for contamination, and decontaminated if necessary, prior to being released.	
L.2	First Aid	Demonstrate the ability to provide first aid treatment onsite.	
	L.2.1	First aid team was promptly dispatched after notification received in the Control Room.	
	L.2.2	Life-threatening medical conditions were addressed as a priority over contamination issues.	
	L.2.3	Team exposure was considered and not permitted to exceed pre-established values.	
	L.2.4	Appropriate contamination controls and /or decontamination practices were employed.	
	L.2.5	Communications between the injury scene and control room were effectively maintained.	
	L.2.6	Team leader demonstrated effective command and control of the accident scene.	
	L.2.7	Team personnel demonstrated proficiency in the use of protective and first aid equipment.	
	L.2.8	The condition and radiological status of the victim was properly documented.	
L.3	Contaminated Injured Transportation	Demonstrate the capability to transport a contaminated injured person offsite. (Criteria demonstrated by alternating one ambulance service/year)	
	L.3.1	Prompt access was gained by ambulance into the protected area.	
	L.3.2	Appropriate dosimetry and protective clothing were issued to ambulance personnel and clothing was donned appropriately.	
	L.3.3	Ambulance personnel verified the medical condition of the victim and received report on injuries / status.	
	L.3.4	Ambulance personnel received turnover on radiological condition of the patient.	
	L.3.5	Contamination control methods were effectively used.	
	L.3.6	An RP tech with a survey meter accompanied patient off-site.	



**VI     SEQUENCE OF EVENTS / SCENARIO NARRATIVE**

**SEQUENCE OF EVENTS**

0800 Ambulance enters River Bend Station, communication with onsite medical personnel and offsite ambulance crew

0830 Ambulance departs site

0845 Ambulance arrives at West Feliciana Parish Hospital, patient turnover

1000 Drill Terminated

**Pre-Staging:**

Ambulance will be pre-staged. Arrival time of the ambulance and patient at West Feliciana Parish Hospital is estimated to be approximately 8:45 AM.

**SCENARIO NARRATIVE**

**Approximate Time:**  
0730

**Location:**  
Condensate Storage Tank (CST)

**Description:**

A chemistry technician taking a water sample in the CST slips and falls on his way down the ladder. During the fall, his hand hits a sharp object and is injured and contaminated with spilled water. He is able to crawl out of the radiologically controlled area (RCA) where he is found by a co-worker, conscious, and bleeding slightly from a wound on his left hand and complaining of back pain. The co-worker will contact the control room for assistance.

**Expected actions:**

When contacted, the operations shift manager will implement the steps of ADM-0060, First Responder Emergencies. The First Responders will be contacted and radiation protection (RP) support requested.

The first aid team responding to the call will perform an assessment of the patient's condition and treat any life-threatening injuries. Based on the individual's condition and vital signs, the responding First Responders will make the decision to transport without decontamination. The control room will be contacted to arrange for ambulance and hospital support based on ADM-0060.



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Radiation protection will monitor radiological exposures for both the responders and the patient. Contamination controls which do not impact care of the patient will be employed. Consideration should be given to the path the patient took from the original accident scene.

While awaiting ambulance arrival, the first aid team will perform the necessary actions to prepare the patient for transport. Assistance will be requested for patient transfer and the Primary Access Point (PAP) informed to prepare for ambulance arrival. RP will assist in planning the patient move to the ambulance pick up point.

The West Feliciana Parish EMS unit will be dispatched to the plant. The initial advisement to the ambulance will be that there is an injured individual located at the plant who is radiologically contaminated. Upon arrival of the ambulance, a turnover of patient medical and radiological conditions will be provided to the ambulance crew. RP will arrange for two technicians to provide radiological coverage for the patient and medical personnel while in route and at the hospital. As medical treatment and patient transport evolve, contamination control measures will continue. Upon their departure from the plant, the ambulance personnel will communicate to West Feliciana Parish Hospital the medical and radiological information as well as an ETA (estimated time of arrival).

Upon notification of the situation, the hospital will prepare the medical team (anti-contamination clothing and dosimetry) as well as the REA (Radiation Emergency Area). When the ambulance arrives at the hospital, Emergency Department staff should meet the patient outside for the purpose of immediately determining the acuity of the case. The patient will be transferred into the REA. The ambulance personnel will be detained temporarily while a plant radiation protection technician surveys the ambulance personnel, equipment, and vehicle.

The patient will be evaluated as appropriate for their condition. A plant radiation protection technician will complete a thorough radiological survey of the patient and the findings should be verbalized and documented. The medical team will proceed with sample taking and decontamination. Radiological samples should be taken from contaminated areas of intact skin and wounds. Facial orifices should be sampled as well.

Decontamination efforts will be carried out until the radiological surveys indicate that background levels are obtained. Particular attention to the decontamination of the wound should be observed.

Following the successful decontamination of the patient, the patient exit process will commence. The patient should receive a full body survey prior to exiting the REA. At this point the staff will exit the REA one at a time and follow the posted Staff Exit chart.

**Unclassified**  
**Radiological Emergency Preparedness Program (REP)**  
**After Action Report/Improvement Plan**  
**River Bend Station**

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