



FEMA

November 8, 2012

Mr. Elmo E. Collins, Jr.
Regional Administrator, U.S. NRC, Region IV
611 Ryan Plaza Drive, Suite 400
Arlington, TX 76011-4005

Dear Mr. Collins:

Enclosed is a copy of the radiological emergency preparedness final report for the Waterford 3 (W3) Steam Electric Station's Medical Services, Emergency Worker Monitoring and Decontamination, and Reception Center drills evaluated on September 25 and 26, 2012. There were no Deficiencies, no Area Requiring Corrective Action (ARCAs) observed during the drills. One Plan Issue was identified as a result of the Lafourche Emergency Worker Monitoring and Decontamination drill. Updated plans and procedures have been provided to and reviewed by my staff. The Plan Issue has been resolved (70-12-1e1-P-01).

Based on the results of the drills, the planning and preparedness for the State of Louisiana and affected local jurisdictions provide reasonable assurance that appropriate measures can be taken to protect public health and safety in the event of a radiological release. Therefore, 44 CFR Part 350 approval of the offsite radiological emergency response plans and preparedness for the State of Louisiana - specific to the W3 will remain in effect.

Sincerely,

A handwritten signature in black ink, appearing to read "Lisa R. Hammond", is written over a horizontal line.

Lisa R. Hammond
RAC Chair

Enclosure

cc: Vanessa Quinn, DHS/FEMA Headquarters
Renae Connell, DHS/FEMA Headquarters
Tim Knight, LDEQ
Kevin Davis, GOHSEP
Bryan Pellegrin, W3



Waterford 3 Steam Electric Station

After Action Report/ Improvement Plan

Drill Date - September 25, 2012

Radiological Emergency Preparedness (REP) Program



FEMA

Published November 02, 2012

Official Report

Waterford 3 Steam Electric Station After Action Report/Improvement Plan

Published November 02, 2012

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Waterford 3 Steam Electric Station After Action Report/Improvement Plan

Published November 02, 2012

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EXECUTIVE SUMMARY

On September 27 - 28, 2012, an out-of-office medical services drill, a reception center, and a emergency worker monitoring and decontamination operation drill were conducted at the Waterford 3 Steam Electric Station (W3) located near New Orleans. The purpose of the drills was to evaluate the U.S. Department of Homeland Security Federal Emergency Management Agency (DHS/FEMA) Region VI evaluated all activities. The purpose of the drills was to evaluate the level of preparedness of local responders to react to a simulated radiological emergency at W3. The previous exercise at this site was a Phase Exercise conducted on December 7, 2011.

Personnel from the State of Louisiana, the American Red Cross, W3, Louisiana Fire Protection District #1, Central Louisiana High School, West Jefferson Medical Center, and St. Charles Parish Hospital Emergency Medical Services participated in the drills. Evaluation Areas demonstrated included: Emergency Operations/Activities, Protective Action Implementation, and Support Operations/Activities. Cooperation and teamwork of all participants was evident during the drills and DHS/FEMA wishes to acknowledge these efforts.

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This report contains the final evaluation of the out-of-office drills. The participants demonstrated knowledge of their emergency response plans and procedures and adequately implemented them. No deficiencies, as Area Response Coordinators (ARCs) were observed. One Plan Issue (70-12-121-P-01) was identified as a result of the Louisiana Emergency Worker Monitoring and Decontamination drill. (An update to the plan and procedures resolved this issue.)

EXECUTIVE SUMMARY

On September 25 - 26, 2012, an out-of-sequence medical services drill, a reception center, and a emergency worker monitoring and decontamination operation drill were conducted for the Waterford 3 Steam Electric Station (W3) located near New Orleans, Louisiana. Personnel from the U.S. Department of Homeland Security/Federal Emergency Management Agency (DHS/FEMA) Region VI, evaluated all activities. The purpose of the drills was to assess the level of preparedness of local responders to react to a simulated radiological emergency at W3. The previous exercise at this site was a Plume Exercise conducted on December 7, 2011.

Personnel from the State of Louisiana, the American Red Cross, W3, Lafourche Fire Protection District #1, Central Lafourche High School, West Jefferson Medical Center, and St. Charles Parish Hospital Emergency Medical Services participated in the drills. Evaluation Areas demonstrated included: Emergency Operations/Facilities, Protective Action Implementation, and Support Operations/Facilities. 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 demonstrated knowledge of their emergency response plans and procedures and adequately implemented them. No Deficiencies, no Areas Requiring Corrective Action (ARCAs) were observed. One Plan Issue (70-12-1e1-P-01) was identified as a result of the Lafourche Emergency Worker Monitoring and Decontamination drill. (An update to the plans and procedures resolved this issue.)

SECTION 1: EXERCISE OVERVIEW

1.1 Exercise Details

Exercise Name

Waterford 3 Steam Electric Station

Type of Exercise

Drill

Exercise Date

September 25, 2012

Program

Department of Homeland Security/FEMA Radiological Emergency Preparedness Program

Scenario Type

Radiological Emergency

1.2 Exercise Planning Team Leadership

Lisa Hammond

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1.3 Participating Organizations

Agencies and organizations of the following jurisdictions participated in the Waterford 3 Steam Electric Station drill:

State Jurisdictions

- Louisiana Department of Children & Family Services
- Louisiana State Police

Risk Jurisdictions

- St. Charles Parish Department of Homeland Security
- St. Charles Parish Rapid Assessment Team
- St. Charles Parish Hospital Emergency Medical Services

Support Jurisdictions

- Central Lafourche High School - Principal's Office
- Lafourche Parish Office of Emergency Planning
- Lafourche Parish Sheriff's Office
- Lafouche Volunteer Fire Protection District No. 1
- Lockport Township Fire Protection District
- Vacherie Volunteer Fire Department No. 1

Private Organizations

- American Red Cross - Southeast Louisiana Chapter
- Waterford 3 Steam Electric Station
- West Jefferson Medical Center

SECTION 2: EXERCISE DESIGN SUMMARY

2.1 Exercise Purpose and Design

The DHS/FEMA Region VI Office evaluated drills conducted on September 25 - 26, 2012 were 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 a radiological emergency involving 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 C.

2.3 Scenario Summary

The drill scenario was developed to evaluate the response of drill participants to an incident requiring evacuation of the public from the 10 mile Emergency Planning Zone surrounding Waterford 3 Steam Electric Station. The scenario provided for the evaluation of Lafourche Parish Emergency Worker Monitoring and Decontamination operation at Lafourche Fire Protection District #1 and the ability to test monitoring, decontamination of emergency workers, vehicles and equipment. In addition, the scenario provided for the evaluation of the Central Lafourche High School Reception Center's ability to conduct monitoring, decontamination, and registration of evacuees. A separate walk-through of the congregate care facility was conducted to ensure that services and accommodations provided at the Raceland Reception Center were consistent with established American Red Cross guidelines.

An out-of-sequence medical drill was also conducted. The medical services drill was developed to evaluate the response of drill participants to an incident at the Waterford 3 Electric Steam Station requiring the transportation, treatment, and decontamination of a radiologically contaminated injured individual. The medical services drill scenario provided for the evaluation of West Jefferson Medical Center and St. Charles Parish Hospital Emergency Medical Services (EMS) staff.

SECTION 3: ANALYSIS OF CAPABILITIES

3.1 Drill Evaluation and Results

Contained in this section are the results and findings of the evaluation of all jurisdictions and functional entities which participated in the September 25 - 26, 2012 evaluated drills to test the off-site emergency response capabilities of local governments in the 10-mile Emergency Planning Zone surrounding the Waterford 3 Steam Electric Station.

Each jurisdiction and functional entity was evaluated on its demonstration of criteria delineated in the exercise evaluation areas as outlined in the FEMA Radiological Emergency Preparedness (REP) Program Manual (April 2012).

3.2 Summary Results of Drill Evaluation

The matrix presented in the table on the following page presents the status of all exercise evaluation area criteria which were scheduled for demonstration during the drill by all participating jurisdictions and functional entities. Exercise criterion are listed by number and the demonstration status of those criterion are indicated by the use of the following letters:

M - Met (No Deficiency or ARCAs assessed and no unresolved ARCAs from prior exercise)

D - Deficiency assessed

A - ARCA(s) assessed or unresolved ARCA(s) from previous exercise(s)

N - Not Demonstrated

P - Plan Issue

Table 3.1 - Summary of Drill Evaluation

DATE: 2012-09-25 SITE: Waterford 3 Steam Electric Station, LA M: Met, A: ARCA, D: Deficiency, P: Plan Issue, N: Not Demonstrated		Lafourche RC	Lafourche EW M/D	St. Charles Amb.	WJMC
Emergency Operations Management					
Mobilization	1a1				
Facilities	1b1				
Direction and Control	1c1				
Communications Equipment	1d1				
Equipment and Supplies	1e1	M	M	M	M
Protective Action Decision Making					
EW Exp. Control Decisions	2a1				
PARs	2b1				
PADs	2b2				
PADs for Disabled/Functional Needs	2c1				
Ingestion PADs	2d1				
RRR Decisions	2e1				
Protective Action Implementation					
EW Exp. Control Implementation	3a1	M	M	M	M
KI Public/Institutionalized	3b1				
PAD Imp. Disabled/Functional Needs	3c1				
PAD Imp. Schools	3c2				
TACP Establishment	3d1				
Impediments to Evacuation	3d2				
Implementation of Ingestion PADs	3e1				
Ingestion Strategies and Information	3e2				
Imp. of RRR Decisions	3f1				
Field Measurement and Analysis					
RESERVED	4a1				
Field Team Management	4a2				
Field Team Operations	4a3				
Field Team Sampling	4b1				
Laboratory Operations	4c1				
Emergency Notification and Public Info					
Initial Alert & Notification	5a1				
Backup Alert & Notification	5a3				
Exception Area Alerting	5a4				
Subsequent Public Information	5b1				
Support Operations/Facilities					
Reception Center Operations	6a1	M			
EW Monitoring & Decon	6b1		M		
Congregate Care	6c1	M			
Contaminated Injured Transport & Care	6d1			M	M

3.3 Criteria Evaluation Summaries

3.3.1 Risk Jurisdictions

3.3.1.1 St. Charles Ambulance Service

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

- a. MET: 1.e.1, 3.a.1, 6.d.1.
- b. AREAS REQUIRING CORRECTIVE ACTION: None
- c. DEFICIENCY: None
- d. PLAN ISSUES: None
- e. NOT DEMONSTRATED: None
- f. PRIOR ISSUES - RESOLVED: None
- g. PRIOR ISSUES - UNRESOLVED: None

3.3.2 Support Jurisdictions

3.3.2.1 Central Lafourche High School Reception Center

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

- a. MET: 1.e.1, 3.a.1, 6.a.1, 6.c.1.
- b. AREAS REQUIRING CORRECTIVE ACTION: None
- c. DEFICIENCY: None
- d. PLAN ISSUES: None
- e. NOT DEMONSTRATED: None
- f. PRIOR ISSUES - RESOLVED: None
- g. PRIOR ISSUES - UNRESOLVED: None

3.3.2.2 Lafourche Fire District #1 Volunteers Emergency Worker Monitoring and Decontamination

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

- a. MET: 1.e.1, 3.a.1, 6.b.1.
- b. AREAS REQUIRING CORRECTIVE ACTION: None
- c. DEFICIENCY: None

d. PLAN ISSUES: 1.e.1.

ISSUE NO.: 70-12-1e1-P-01

CRITERION: Equipment, maps, displays, dosimetry, KI, and other supplies are sufficient to support emergency operations.

CONDITION: Operational tests conducted on survey meters were performed incorrectly.

POSSIBLE CAUSE: Procedures do not specifically discuss the proper way to conduct an operational test using a range of reading. In addition, only a single reading is posted on the side of the meter, not a range. Getting a response of the exact number posted on the meter is difficult due to fluctuations in naturally occurring background levels.

REFERENCE: NUREG 0654 H.10 and the Radiological Emergency Preparedness Program Manual evaluation criterion 1.e.1

EFFECT: Survey meters could have been used that were not functioning properly increasing the potential for radioactive contamination to go unnoticed.

CORRECTIVE ACTION DEMONSTRATED: Updated plans and procedures were provided with thorough directions on properly conducting an operational check of the survey meters.

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

3.3.2.3 West Jefferson Medical Center

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

- a. MET: 1.e.1, 3.a.1, 6.d.1.
- b. AREAS REQUIRING CORRECTIVE ACTION: None

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

SECTION 4: CONCLUSION

Based on the results of the drill, 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 Waterford 3 Steam Electric Station will remain in effect.

APPENDIX A: DRILL EVALUATORS AND TEAM LEADERS

DATE: 2012-09-25, SITE: Waterford 3 Steam Electric Station, LA

LOCATION	EVALUATOR	AGENCY
St. Charles Ambulance Service	*Linda Gee	FEMA RVI
Central Lafourche High School Reception Center	Nan Calhoun *Linda Gee Timothy Pflieger	FEMA RVI FEMA RVI FEMA RVI
Lafourche Fire District #1 Volunteers Emergency Worker Monitoring and Decontamination	Nan Calhoun *Linda Gee Timothy Pflieger	FEMA RVI FEMA RVI FEMA RVI
West Jefferson Medical Center	Nan Calhoun Timothy Pflieger	FEMA RVI FEMA RVI
* Team Leader		

APPENDIX B: ACRONYMS AND ABBREVIATIONS

Acronym	Meaning
CLHS	Central Lafourche High School
CPM	Counts Per Minute
DHS/FEMA	U. S. Department of Homeland Security/Federal Emergency Management Agency
DRD	Direct Reading Dosimeter
EMS	Emergency Medical Services
EOC	Emergency Operations Center
EPD	Electronic Personal Dosimeter
EW	Emergency Worker
KI	Potassium Iodide
OIC	Officer in Charge
OSL	Optically Stimulated Luminescence Dosimeter
PPE	Personal Protective Equipment
REA	Radiation Emergency Area
REAC/TS	Radiation Emergency Assistance Center/Training Site
REP	Radiological Emergency Preparedness
TLD	Thermoluminescent Dosimeter
W3	Waterford 3 Steam Electric Station
WJMC	West Jefferson Medical Center

APPENDIX C: EXERCISE PLAN

WATERFORD 3 STEAM ELECTRIC STATION
2012 RECEPTION CENTER/DECONTAMINATION STATION EVALUATED DRILL
EVALUATION AREAS AND EXTENT-OF-PLAY (EOP) AGREEMENT

**RADIOLOGICAL EMERGENCY
Reception Center
Emergency Worker Decontamination Station

FOR

WATERFORD 3 STEAM ELECTRIC STATION**

September 25-26, 2012

Participants

**State of Louisiana
Lafourche Parish Emergency Management
Lafourche Parish Fire Protection District #1
Lafourche Parish School Board
American Red Cross**

**WATERFORD 3 STEAM ELECTRIC STATION
2012 RECEPTION CENTER/DECONTAMINATION STATION EVALUATED DRILL
EVALUATION AREAS AND EXTENT-OF-PLAY (EOP) AGREEMENT**

I. PURPOSE

This simulated radiation emergency drill is being conducted in order to exercise the emergency response activities for members of the general public requiring reception and care and emergency workers requiring decontamination services in the area of the Waterford 3 Steam Electric Station.

The Central Lafourche High School will demonstrate the adequacy of the equipment, procedures, supplies and personnel for handling members of the general public requiring reception and care.

The Lafourche Parish Fire Protection District #1 will demonstrate the adequacy of equipment, procedures supplies and personnel for handling emergency workers requiring decontamination services.

II. PROPOSED SCHEDULE

DATE: September 25, 2012
TIME: 1500
LOCATION: Raceland Recreation Center
EVENT: Red Cross Shelter Demonstration

DATE: September 25, 2012
TIME: 1800
LOCATION: Central Lafourche High School
EVENT: Reception Center Demonstration

DATE: September 26, 2012
TIME: 1800
LOCATION: Lafourche Fire Protection District #1
EVENT: Decontamination Station Demonstration

III. DISCLAIMER

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

WATERFORD 3 STEAM ELECTRIC STATION
2012 RECEPTION CENTER/DECONTAMINATION STATION EVALUATED DRILL
EVALUATION AREAS AND EXTENT-OF-PLAY (EOP) AGREEMENT

IV. EVALUATION AREAS AND EXTENT-OF-PLAY

EVALUATION AREA 1: EMERGENCY OPERATIONS MANAGEMENT

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. (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

Central Lafourche High School (CLHS) Reception Center; Lafourche FPD
#1 Decontamination Station

Extent of Play

Equipment, maps, displays, dosimetry, potassium iodide (KI) and other supplies will be demonstrated for use as they would in an actual emergency. This includes dosimetry and any protective gear worn or used by emergency workers.

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.

Out of Sequence Demonstration

The Central Lafourche High School (CLHS) will be demonstrated out-of-sequence on September 25, 2012 at 6:00 PM

The Lafourche Fire Department Emergency Worker Monitoring and Decontamination Center will be demonstrated out-of-sequence on September 26, 2012 at 6:00 PM.

ARCAs

None

WATERFORD 3 STEAM ELECTRIC STATION
2012 RECEPTION CENTER/DECONTAMINATION STATION EVALUATED DRILL
EVALUATION AREAS AND EXTENT-OF-PLAY (EOP) AGREEMENT

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. (NUREG-0654/FEMA-REP-1, J.10.e; K.3.a, b; K.4)

Locations

Central Lafourche High School (CLHS) Reception Center; Lafourche FPD #1 Decontamination Station

Extent of Play

Area dosimetry will be used in the radiological controlled area at CLHS Reception Center and the Lafourche FPD #1 Decontamination Station. TLDs will be available for all emergency workers. Simulated TLDs may be used for the drill.

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.

ARCAs

None

EVALUATION AREA 6: SUPPORT OPERATION/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)

Locations

WATERFORD 3 STEAM ELECTRIC STATION
2012 RECEPTION CENTER/DECONTAMINATION STATION EVALUATED DRILL
EVALUATION AREAS AND EXTENT-OF-PLAY (EOP) AGREEMENT

Central Lafourche High School (CLHS) Reception Center

Extent of Play

Participants will be pre-staged at or near the reception center. Registration and assignment of evacuees will be demonstrated at the reception center. The capability to monitor 20% of Protective Action Sections C1, C2, C3, C4 and D4 of the 10-mile EPZ over a 12-hour period will be demonstrated. To meet 20% (20% of the population of 5,137 = 1028 persons) requires a monitoring capability of 1.5 evacuees per minute.

Per the REP Manual, a minimum of six evacuees need to 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 the decontamination station. Decontamination will be evaluated by demonstration and further discussion.

One contaminated evacuee vehicle will be identified and processed during the drill.

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.

Sub-element 6.b – Monitoring and Decontamination of Emergency Workers and their Equipment and Vehicles

Criterion 6.b.1: The facility/ORO has adequate procedures and resources to accomplish monitoring and decontamination of emergency workers and their equipment and vehicles. (NUREG-0654/FEMA-REP-1, K.5.a, b)

Locations

Lafourche FPD #1 Decontamination Station

Extent of Play

Participants will be pre-staged near the decontamination station.

WATERFORD 3 STEAM ELECTRIC STATION
2012 RECEPTION CENTER/DECONTAMINATION STATION EVALUATED DRILL
EVALUATION AREAS AND EXTENT-OF-PLAY (EOP) AGREEMENT

One emergency worker vehicle will be monitored for contamination. A controller will inject data for a simulated contamination level for one vehicle.

Two emergency workers will be monitored for contamination. A controller will inject data for a simulated contamination level for one emergency worker. Decontamination will be evaluated by demonstration and further discussion.

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.

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)

Locations

Raceland Recreation Center

Extent of Play

This demonstration will take place out-of-sequence on September 25 at 1500 at the Raceland Recreation Center, 241 Recreation Drive, Raceland, LA.

ARCA's

None

WATERFORD 3 STEAM ELECTRIC STATION
2012 RECEPTION CENTER/DECONTAMINATION STATION EVALUATED DRILL
EVALUATION AREAS AND EXTENT-OF-PLAY (EOP) AGREEMENT

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 Policy Paper, Strategic Review Steering Committee, Initiative 1.5, Correct Issues Immediately, effective March 31, 2000, signed by Kay C. Goss, CEM, Associate Director for Preparedness, Training and Exercises. Acceptable locations/activities for "on-the-spot-correction" are clearly indicated in the extent of play portion under each criterion.

STATE OF LOUISIANA

OFFSITE SCENARIO

FOR

WATERFORD 3 STEAM ELECTRIC STATION

September 25 & 26, 2012

Participating Organizations

LAFORCHE FIRE PROTECTION DISTRICT #1 DECONTAMINATION STATION
CENTRAL LAFORCHE HIGH SCHOOL RECEPTION CENTER

STATE OF LOUISIANA
WATERFORD 3 SES Drill
September 25 & 26, 2012

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STATE OF LOUISIANA
WATERFORD 3 SES Drill
September 25 & 26, 2012

Schedule of Events

September 25 & 26, 2012

Tuesday, September 25, 2012

- 15:00 Lafourche Parish Congregate Care Demonstration at the Raceland Recreation Center
- 18:00 Reception Center Demonstration at Central Lafourche High School

Wednesday, September 26, 2012

- 18:00 Lafourche FPD #1 Decontamination Station Demonstration

STATE OF LOUISIANA
WATERFORD-3 SES
September 25 & 26, 2012

Narrative Summary

I. Situation

This drill will be conducted for the purpose of testing the ability of the following organizations to address an emergency at the Waterford 3 SES: Lafourche FPD #1 Emergency Worker Decontamination Station, and the Central Lafourche High School Reception Center.

II. Summary of Events

Tuesday, September 25, 2012

At approximately 18:00, the Drill Control Team will notify the Lafourche Parish EOC to notify the Reception Center staff of a simulated emergency condition at Waterford-3. Activation and staffing of the Reception Center will begin at this time. At approximately 19:00, a simulated evacuee arrives at the Central Lafourche High School Reception Center for evaluation. Upon arrival at the Central Lafourche High School Reception Center, the simulated evacuee's car is found to be contaminated and is impounded. When the simulated evacuee is monitored, he is found to be contaminated and undergoes decontamination procedures. After these procedures are performed, the simulated evacuee is found to be free of contamination and is dismissed. In all, a total of six evacuees and one vehicle will undergo monitoring procedures. Evacuee registration and shelter assignment will also take place at this time. Prior to the termination of the drill, a list of qualified replacement personnel will be made available. No shift change will be demonstrated.

Wednesday, September 26, 2012

At approximately 18:00, the Drill Control Team will notify the Lafourche Parish EOC to notify the Lafourche FPD #1 Emergency Worker Decontamination Station staff of a simulated emergency condition at Waterford-3.

An emergency worker is directed to the Lafourche FPD #1 emergency worker decontamination station for evaluation. Upon arrival at the Lafourche FPD #1 station, the emergency worker's car is found to be contaminated and is impounded.

When he is monitored, the emergency worker is found to be contaminated and undergoes decontamination procedures. After these procedures are performed, the emergency worker is found to be free of contamination and is dismissed.

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Prior to the termination of the drill, a list of qualified replacement personnel will be made available. No shift change will take place.

IV. Attachments

1. Reception Center Drill Timeline
2. Decon Station Drill Timeline
3. Decon Station Cue Cards
4. Reception Center Cue Cards
3. Offsite Controller/Monitor Assignments

STATE OF LOUISIANA
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ATTACHMENT 1

TIMELINE

CENTRAL LAFOURCHE HIGH SCHOOL RECEPTION CENTER DEMONSTRATION

STATE OF LOUISIANA
WATERFORD-3 SES
September 25 & 26, 2012

TIME	EVENT	DRILL ACTIVITY
9/25/12 17:45 T= -0:15	Drill preparations are made.	The Drill Control Team assembles at the Central Lafourche High School Reception Center.
18:00 T= 0 CC-7A	Drill initiated by the Drill Control Team	Communications initiated from the Drill Control Team to the Lafourche Parish EOC to notify Central Lafourche High School Reception Center response personnel.
18:30 T= +0:30	Responders report to the Reception Center	Responders are briefed, outfitted and begin set-up of the center.
19:00 T=+1:00	An evacuee arrives at the Central Lafourche High School Reception Center and monitoring procedures are initiated.	
19:15 T=+1:15 CC-8A CC-9A	The evacuee's vehicle is found to be contaminated.	Vehicle is moved to the impoundment area. Vehicle remains in the impoundment area.
19:20 T=+1:20 CC-10A CC-11A	An evacuee is found to be contaminated.	Decontamination measures are initiated.
19:30 T=+1:30 CC-12A	The contaminated evacuee is surveyed after decontamination procedures and is found to be clean.	The evacuee is released.
19:45 T=+1:45	Registration and shelter assignment activities are demonstrated.	
20:00 T=+2:00	Reception Center personnel make available shift change information.	

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ATTACHMENT 2

TIMELINE

LAFOURCHE FPD #1 DECONTAMINATION STATION DEMONSTRATION

STATE OF LOUISIANA
WATERFORD-3 SES
September 25 & 26, 2012

TIME	EVENT	DRILL ACTIVITY
9/26/12 17:45 T=-0:15	Drill preparations are made.	The Drill Control Team assembles at the Lafourche FPD #1.
18:00 T=0	Drill initiated by the Drill Control Team	Communications initiated from the Drill Control Team to Lafourche FPD #1 Fire Dispatch. Lafourche FPD #1 response personnel are notified.
18:30 T=+0:30	Responders report to the Decontamination Station	Responders are briefed, outfitted and begin set-up of the station.
17:00 T=+1:00	An emergency worker arrives at the Lafourche FPD #1 Decontamination Station and monitoring procedures are initiated.	
17:15 T=+1:15 CC-1A CC-2A CC-2B CC-3A	The emergency worker vehicle is found to be contaminated.	Vehicle is moved to the impoundment area and the interior is surveyed. Vehicle remains in the impoundment area.
17:20 T=+1:20 CC-4A CC-4B CC-5A	An emergency worker is found to be contaminated.	Decontamination measures are initiated.
17:30 T=+1:30 CC-6A	The contaminated emergency worker is surveyed after decontamination procedures and is found to be clean.	The emergency worker is released.
17:45 T=+1:45	Decontamination Station personnel make available shift change information.	

WATERFORD 3 STEAM ELECTRIC STATION
2012 MEDICAL EMERGENCY RESPONSE EVALUATED DRILL
EVALUATION AREAS AND EXTENT-OF-PLAY (EOP) AGREEMENT

**RADIOLOGICAL EMERGENCY
MEDICAL DRILL SCENARIO (MS-1)**

FOR

WATERFORD 3 STEAM ELECTRIC STATION

September 26, 2012

Participants

**Entergy/Waterford-3
West Jefferson Medical Center
St Charles EMS**

WATERFORD 3 STEAM ELECTRIC STATION
2012 MEDICAL EMERGENCY RESPONSE EVALUATED DRILL
EVALUATION AREAS AND EXTENT-OF-PLAY (EOP) AGREEMENT

I. **PURPOSE**

This simulated radiation medical emergency is being conducted in order to exercise the emergency medical response in the area of the Waterford 3 Steam Electric Station.

The West Jefferson Medical Center will demonstrate the adequacy of the equipment, procedures, supplies and personnel of medical facilities responsible for treatment of radiologically contaminated, injured or exposed individuals.

St. Charles EMS will demonstrate the adequacy of vehicles, equipment, procedures and personnel for transporting radiologically contaminated, injured or exposed individuals.

II. **PROPOSED SCHEDULE**

DATE: September 26, 2012

TIME: 0700

LOCATION: West Bank Bridge Park

EVENT: EMS Patient Transfer

DATE: September 26, 2012

TIME: 0800

LOCATION: West Jefferson Medical Center

EVENT: Fall victim with blow to the head and fractured left leg

III. **DISCLAIMER**

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

WATERFORD 3 STEAM ELECTRIC STATION
2012 MEDICAL EMERGENCY RESPONSE EVALUATED DRILL
EVALUATION AREAS AND EXTENT-OF-PLAY (EOP) AGREEMENT

IV. EVALUATION AREAS AND EXTENT-OF-PLAY

EVALUATION AREA 1: EMERGENCY OPERATIONS MANAGEMENT

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.

Locations

West Jefferson Medical Center, St Charles EMS

Extent of Play

Equipment, maps, displays, dosimetry, potassium iodide (KI) and other supplies will be demonstrated for use as they would in an actual emergency. This includes dosimetry and any protective gear worn or used by emergency workers.

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.

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.

Locations

West Jefferson Medical Center, St Charles EMS

WATERFORD 3 STEAM ELECTRIC STATION
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EVALUATION AREAS AND EXTENT-OF-PLAY (EOP) AGREEMENT

Extent of Play

Area dosimetry will be used in the radiological controlled area at West Jefferson Medical Center. TLDs will be available for all emergency workers. Simulated TLDs may be used for the drill.

Correction on the spot, at the discretion of and concurrence between the evaluator and the controller may be acceptable at these locations.

ARCAs

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.

Locations

St Charles EMS, West Jefferson Medical Center

Extent of Play

1. The St Charles EMS unit will be requested (out-of-sequence) by the St Charles EOC to respond to an injury with possible contamination at the St Charles Parish West Bank Bridge Park. Patient transfer function will be demonstrated at this location. After the patient is transferred, this portion of the drill will be terminated.
2. West Jefferson Medical Center will be contacted directly by the St Charles EOC. A simulated injured and potentially contaminated member of the public will be identified and EMS transportation will be staged at the hospital to begin the drill. EMS patient transfer will have been demonstrated in a previous out-of-sequence activity.

Correction on the spot, at the discretion of and concurrence between evaluator and controller, may be acceptable at this location.

WATERFORD 3 STEAM ELECTRIC STATION
2012 MEDICAL EMERGENCY RESPONSE EVALUATED DRILL
EVALUATION AREAS AND EXTENT-OF-PLAY (EOP) AGREEMENT

ARCAs

None

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:

REP Manual III-21

WATERFORD 3 OFFSITE MEDICAL DRILL
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SEPTEMBER 26, 2012

2. Extent of Play

- a. Dosimetry as appropriate to the situation will be demonstrated by the ambulance crew. Area dosimetry will be used in the radiological controlled area at West Jefferson Medical Center.
- b. Correction on the spot, at the discretion of and concurrence between the evaluator and the controller, may be acceptable at these locations.

3. ARCA's

None

B. EVALUATION AREA 6: SUPPORT OPERATIONS/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.

1. Locations

St Charles EMS, West Jefferson Medical Center

2. Extent of Play

- a. The St Charles EMS unit will be requested by the St Charles EOC (through simulation) to respond to an injury with possible contamination for a member of the general public at the St Charles Parish West Bank Bridge Park. Patient transfer function will be demonstrated at this location. The patient will then be transported to the WJMC for treatment. If for some reason, the EMS unit is called into service in response to an actual event, the patient transportation will take place using an alternate vehicle.
- b. West Jefferson Medical Center contact will be simulated via cue card. A simulated injured and potentially contaminated member of the public will be identified. EMS transportation will be demonstrated from St Charles Parish to WJMC to begin the drill.

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- c. St. Charles EMS will contact the hospital informing them they are in route. The transportation of the patient from St Charles Parish to the hospital will be simulated.
- d. An estimated time of arrival (ETA) that will allow for the hospital to completely mobilize will be given. The time can be discussed with the evaluator prior to the beginning of the drill.
- e. Correction on the spot, at the discretion of and concurrence between evaluator and controller, may be acceptable at this location

3. ARCAs

None

B. 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.

B. REFERENCES

As indicated in the Extent-of-Play Agreement, the State of Louisiana requests the option to correct issues immediately as defined in FEMA Policy Paper, Strategic Review Steering Committee, Initiative 1.5, correct Issues Immediately, effective March 31, 2000, signed by Kay C. Goss, CEM, Associate Director for Preparedness, Training and Exercises. Acceptable locations/activities for on the spot correction are clearly indicated in the extent of play portion under each criterion.

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III. OBJECTIVES

The following general objectives and guidelines have been developed for the Offsite Medical Drill, which is scheduled on September 26, 2012.

A. WEST JEFFERSON MEDICAL CENTER

1. Demonstrate the capability to alert and fully mobilize personnel for both emergency facilities and field operations. Demonstrate the capability to activate and staff emergency facilities for emergency operations.
2. Demonstrate the capability to communicate with all appropriate emergency personnel at facilities and in the field.
3. Demonstrate the capability to continuously monitor and control radiation exposure to emergency workers.
4. Demonstrate the adequacy of the equipment, procedures, supplies and personnel of medical facilities responsible for treatment of contaminated, injured or exposed individuals.

B. ST. CHARLES HOSPITAL AMBULANCE SERVICE

1. Demonstrate the capability to communicate with all appropriate emergency personnel at facilities and in the field.
2. Demonstrate the capability to continuously monitor and control radiation exposure to emergency workers.
3. Demonstrate the adequacy of vehicles, equipment, procedures and personnel for transporting contaminated, injured or exposed individuals.

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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 medical response drill will be conducted on September 26, 2012.
2. Participation is limited to the St. Charles Hospital Ambulance staff, West Jefferson Medical Center Emergency Room Staff and the Drill Control Team. The Waterford 3 plant staff **WILL NOT** participate.
3. The scenario is based on the premise that there has been a radiological release from Waterford 3.
4. Communications between St Charles Parish and West Jefferson Medical Center are simulated by the Drill Control Team.
5. A St Charles EMS unit will be requested to pre-stage at the St Charles Parish West Bank Bridge Park due to time constraints. The drill will be conducted to allow for an arrival time at West Jefferson Medical Center at approximately 08:00.
6. A simulated contaminated injured member of the public is staged at the West Bank Bridge Park at the beginning of the drill.
7. The drill is initiated by the Drill Control Team requesting the dispatch of the St. Charles Hospital Ambulance Service to transport the patient to West Jefferson Medical Center. The Drill Control Team then contacts West Jefferson Medical Center simulating a report of a medical emergency.
8. All communications are preceded and ended with "THIS IS A DRILL."
9. The simulated medical emergency continues until the patient is decontaminated and treated by the West Jefferson Medical Center medical staff.
10. A critique is conducted immediately following the termination of the drill.

WATERFORD 3 OFFSITE MEDICAL DRILL
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V. NARRATIVE SUMMARY

An evacuation has been ordered for the area around Waterford-3 and the general public is in the process of evacuating portions of the 10-mile EPZ. In this scenario, an evacuee is injured in a motor vehicle accident and has been transported by relatives to the West Bank Bridge Park. The evacuee has been surveyed by members of the Parish staff and has been found to be contaminated. St Charles EMS has been requested to provide treatment/transportation of a contaminated patient to the West Jefferson Medical Center for treatment.

At 0700, the St Charles EMS unit is dispatched (simulated) to the West Bank Bridge Park. After requesting the ambulance, the Drill Control Team calls the West Jefferson Medical Center to report the simulated medical emergency. The initial advisement to the ambulance has been that there is an injured individual located at the West Bank Bridge Park who is radiologically contaminated due to a radiological release from Waterford-3. Once the ambulance arrives, the individual should be medically evaluated. A turnover (from the controller) of the radiological status will be provided to the ambulance personnel. As medical treatment and patient transport continue, contamination control measures should proceed. The ambulance personnel should communicate with WJMC upon their departure from the West Bank Bridge Park which should include medical and radiological information as well as an ETA (estimated time of arrival).

Upon arrival at West Jefferson Medical Center, the patient is taken into the REA, decontaminated and treated for the simulated injuries. After the treatment has proceeded to the point that the patient would be admitted to the hospital and the ambulance has been surveyed and released, the medical drill is terminated and a critique of the events is conducted.

WATERFORD 3 OFFSITE MEDICAL DRILL
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VI. SEQUENCE OF EVENTS

TIME	EVENT	DRILL ACTIVITY
06:30 T= -0:30 CC-1	Drill preparations are made.	The Drill Control Team and a simulated victim assemble at West Bank Bridge Park. The patient is "made up" and the Drill personnel are briefed.
07:00 T= +0:00 CC-2	Drill initiated by the Drill Control Team.	The Drill Control Team simulates a request to St. Charles Hospital Ambulance Service to respond and notifies West Jefferson Medical Center of the medical emergency.
N/A CC-3		If West Jefferson Medical Center is unable to participate, the medical emergency drill will be terminated.
07:15 T=+0:15 CC-4		Ambulance departs West Bank Bridge Park. Patient's condition and ETA are provided to WJMC. The patient's condition will not change during transportation to West Jefferson Medical Center.
07:50 T=+0:50 CC-5		The patient's condition is reported prior to arrival at West Jefferson Medical Center
CC-6	Patient arrives at West Jefferson Medical Center.	The patient is removed from the ambulance and taken to the REA. The hospital personnel decontaminate the patient and begin treatment of the injury.
CC-7	Technician surveys the ambulance for contamination.	The ambulance is determined to be clean and is released.
CC-8	Drill terminated. Critique conducted.	When the patient is ready to be admitted to the hospital and the ambulance has been surveyed and released, the medical response drill will be terminated.

VI. SEQUENCE OF EVENTS		
TIME	EVENT	DRIll ACTIVITY
06:30 T=+0:30 CC-1	Onll preparations are made	The DRIll Control Team and a simulated victim assemble at West Bank Bridge Park. The patient is "made up," and the DRIll personnel are briefed.
07:00 T=+0:00 CC-2	Onll initiated by the DRIll Control Team.	The DRIll Control Team simulates a request to St. Charles Hospital Ambulance Service to respond and notifies West Jefferson Medical Center of the medical emergency.
07:15 T=+0:15 CC-4		If West Jefferson Medical Center is unable to respond, the medical emergency DRIll will be initiated.
07:30 T=+0:30 CC-5		Ambulance departs West Bank Bridge Park. Patient's condition and ETA are provided to WJMC. The patient's condition will not change during transportation to West Jefferson Medical Center.
07:50 T=+0:50 CC-6		The patient's condition is reported prior to arrival at West Jefferson Medical Center.
08:00 T=+1:00 CC-8	Patient arrives at West Jefferson Medical Center.	The patient is removed from the ambulance and taken to the REB. The hospital personnel decontaminates the patient and begin treatment of the injury.
08:15 T=+1:15 CC-7	Technician surveys the ambulance for contamination.	The ambulance is determined to be clean and is released.
08:30 T=+1:30 CC-8	DRIll terminated. Onllus conducted.	When the patient is ready to be admitted to the hospital and the ambulance has been surveyed and released, the medical response DRIll will be terminated.

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