



# South Texas Project

## After Action Report/ Improvement Plan

Drill Date – October 31, 2017

Radiological Emergency Preparedness (REP) Program



**FEMA**

*Published*

**Unclassified**

Radiological Emergency Preparedness Program (REP)

After Action Report/Improvement Plan

South Texas Project

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**2017 FEMA EVALUATED MS-1 EXERCISE  
MATAGORDA REGIONAL MEDICAL CENTER**

# South Texas Project After Action Report/Improvement Plan

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**EXECUTIVE SUMMARY**

On October 31, 2017, an out-of-sequence medical drill was conducted for the South Texas Project (STP) located near Wadsworth, Matagorda County, Texas. Personnel from the U.S. Department of Homeland Security/Federal Emergency Management Agency (DHS/FEMA), Region VI, evaluated the drills. The purpose was to assess the level of preparedness of state and local responders to react to a simulated radiological emergency at STP.

Personnel from the Texas Department of State Health Services, Matagorda County Emergency Medical Services, and Matagorda Regional Medical Center participated in the drill. Evaluation Areas demonstrated included: Emergency Operations Management, Protective Action Implementation, and Support Operations/Facilities. Cooperation and teamwork of all the participants was evident during this drill, and DHS/FEMA wishes to acknowledge these efforts.

This report contains the final written evaluation of this out-of-sequence drill. The participants demonstrated knowledge of their emergency response plans and procedures and adequately implemented them. There were no Level 1, Level 2, or Planning Issues identified as a result of this drill.

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## **SECTION 1: EXERCISE OVERVIEW**

### **1.1 Exercise Details**

**Exercise Name**

South Texas Project

**Type of Exercise**

Drill

**Exercise Date**

October 31, 2017

**Program**

Department of Homeland Security/FEMA Radiological Emergency Preparedness  
Program

**Scenario Type**

Radiological Emergency

### **1.2 Exercise Planning Team Leadership**

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### **1.3 Participating Organizations**

Agencies and organizations of the following jurisdictions participated in the South Texas Project drill:

Risk Jurisdictions

Matagorda Regional Medical Center

Matagorda Emergency Medical Services

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

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

The DHS/FEMA Region VI Office evaluated the medical services drill on October 31, 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 a radiological emergency involving the South Texas Project (STP). The purpose of this report is to present 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 B.

### **2.3 Scenario Summary**

The medical drill scenario was developed to evaluate the response of a contaminated injured patient requiring the transportation, treatment and decontamination of a radiologically contaminated injured individual. The drill scenario provided for the evaluation of the Matagorda County Emergency Medical Services, Matagorda Regional Medical Center staff, and Texas Department of State Health Services.

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## **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 that participated in the October 31, 2017 drill to test the offsite emergency response capabilities of state and local governments in the 10-mile emergency planning zone (EPZ) surrounding the South Texas Project (STP).

Each jurisdiction and functional entity was evaluated on its demonstration of criteria contained in the exercise evaluation areas as outlined in the Federal Register, Vol. 67, No. 80, "FEMA Radiological Emergency Preparedness: Evaluation Methodology" (April 25, 2002). Detailed information on the exercise evaluation area criteria and the extent of play agreements used in this drill is included as an appendix to this report.

### **3.2 Summary Results of Drill Evaluation**

The matrix presented in Table 3.1, on the following page, presents the status of all exercise evaluation area criteria that were scheduled for demonstration during the drill 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 Deficiency or Areas Requiring Corrective Actions [ARCA] assessed and no unresolved ARCA from prior exercises)

N - Not Demonstrated

P - Plan Issue



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Table 3.1 - Summary of Drill Evaluation

		Matagorda County EMS	Matagorda Reg. Med. Ctr.
<p style="text-align: center;">DATE: 2015-02-18 SITE: South Texas Project, TX M: Met, P: Plan Issue, N: Not Demonstrated</p>			
Emergency Operations Management			
Mobilization	1a1		
Facilities	1b1		
Direction and Control	1c1		
Communications Equipment	1d1		
Equipment and Supplies	1e1	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
Contaminated Injured Transport & Care	6d1	M	M

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### **3.3 Criteria Evaluation Summaries**

#### **3.3.1 Support Jurisdictions**

##### **3.3.1.1 Matagorda Regional 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. PLAN ISSUES: None
- c. NOT DEMONSTRATED: None
- d. PRIOR ISSUES - RESOLVED: None
- e. PRIOR ISSUES - UNRESOLVED: None

#### **3.3.2 Private Organizations**

##### **3.3.2.1 Matagorda County EMS**

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. PLAN ISSUES: None
- c. NOT DEMONSTRATED: None
- d. PRIOR ISSUES - RESOLVED: None

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**SECTION 4: CONCLUSION**

Based on the results of the drill, the offsite radiological emergency response plans and preparedness for the State of Texas 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 Texas site-specific to South Texas Project will remain in effect.



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**APPENDIX A: DRILL EVALUATORS AND TEAM  
LEADERS**

DATE: 2017-10-31, SITE: South Texas Project, TX

LOCATION	EVALUATOR	AGENCY
Matagorda Regional Medical Center	*Scott Flowerday	FEMA RVI
Matagorda County EMS	*Brad DeKorte	FEMA RVI
* Team Leader		

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**APPENDIX B: EXERCISE PLAN**

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**Exercise Evaluation Areas and Extent of Play Agreement**

**Matagorda County Emergency Medical Service  
And  
Matagorda Regional Medical Center**

**October 31, 2017**

*The Evaluation Areas applicable to this exercise are taken from the Federal Emergency Management Agency (FEMA) Evaluation Area Criterion for Medical Exercises. The extent of play follows the criterion in these documents. Any exception to the Evaluation Area is noted with the Evaluation Area and extent of play.*

**EVALUATION AREA 1.e.1 – EQUIPMENT, MAPS, DISPLAYS, MONITORING INSTRUMENTS, 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)**

Instruments are operationally checked before use. Instruments are calibrated in accordance with manufacturer's recommendations.

Sufficient supplies, equipment, displays, and personal protective equipment are available.

**Extent of Play**

Monitoring instruments and dosimetry will be the only items inspected under this Evaluation Area, sub-element criterion.

Correction on the spot is requested.

**EVALUATION AREA 3.a.1 – IMPLEMENTATION OF EMERGENCY WORKER EXPOSURE CONTROL – OROS ISSUE APPROPRIATE DOSIMETRY, KI, AND PROCEDURES, AND MANAGE RADIOLOGICAL EXPOSURE TO EMERGENCY WORKERS IN ACCORDANCE WITH THE PLANS/PROCEDURES. (NUREG-0654/FEMA-REP-1, J.10.e; K.3.a, b; K.4)**

The Offsite Response Organizations (OROs) issue appropriate dosimetry and procedures and manage radiological exposure. Emergency Workers periodically and at the end of each mission read their dosimetry and record the readings on the appropriate exposure record or chart.



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### **Extent of Play**

Correction on the spot is permitted with issues related to dosimetry use, reading dosimetry, alarm set points and record keeping. Administration and record-keeping of Potassium Iodide (KI) will not be demonstrated at this exercise. Correction on the spot is requested.

### **EVALUATION AREA 6.d.1 – TRANSPORTATION AND TREATMENT OF CONTAMINATED INJURED INDIVIDUALS (NUREG-0654/FEMA-REP-1, F.2; H.10; K.5.a, b; L.1, 4)**

The facility/ORO has the appropriate space, adequate resources, and trained personnel to provide transport, monitoring, decontamination, and medical services to contaminated, injured individuals.

### **Extent of Play**

Correction on the spot is permitted with issues related to the adequacy of vehicles, equipment, and procedures, decontamination techniques, cross contamination issues for personnel transporting and treating contaminated injured or exposed individuals. Correction on the spot is requested.

### **Onsite Extent of Play**

Matagorda County EMS will be notified of the need to transport and treat a contaminated injured individual. Onsite medical responders will simulate initial treatment of the injured individual providing emergency care until the ambulance arrives to transport the injured individual to the hospital.

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