



South Texas Project

# After Action Report/ Improvement Plan

Exercise Date – June 12-13, 2018

Radiological Emergency Preparedness (REP) Program



**FEMA**

*August 13/2018*

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## EXECUTIVE SUMMARY

On June 12-13, 2018, a biennial Radiological Emergency Preparedness (REP) exercise was conducted in the plume Emergency Planning Zone (EPZ) and Ingestion Pathway around the South Texas Project (STP) located near Wadsworth, Matagorda County, Texas. The U.S. Department of Homeland Security/Federal Emergency Management Agency (DHS/FEMA), Region VI, evaluated the exercise. The purpose was to assess the level of preparedness of state and local responders to react to a simulated radiological emergency at STP. This exercise was held in accordance with FEMA's policies and guidance concerning the implementation of state and local radiological emergency preparedness plans and procedures.

The previous exercise at this site was conducted on July 13, 2016. The qualifying emergency preparedness exercise to satisfy FEMA rule 44 Code of Federal Regulations 350 requirements for U.S. Nuclear Regulatory Commission licensing to operate the facility was conducted on April 8, 1987.

FEMA, Region VI wishes to acknowledge the efforts of the many individuals in the State of Texas, Matagorda County, Bay City, the City of Palacios and surrounding jurisdictions who participated in this exercise. Protecting the public health and safety is the full-time job of some of the exercise participants and an additional assigned responsibility for others. Still others have willingly sought this responsibility by volunteering to provide vital emergency services to their communities. Cooperation and teamwork of all the participants was evident during this exercise.

This report contains the final written evaluation of the biennial exercise. All state and local organizations, except where noted in this report, demonstrated knowledge of their emergency response plans and procedures and adequately implemented them. There were no Level 1, no Level 2, and no Plan Issues identified during this exercise.

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## SECTION 1: EXERCISE OVERVIEW

### 1.1 Exercise Details

**Exercise Name**

South Texas Project

**Type of Exercise**

Ingestion

**Exercise Date**

June 12-13, 2018

**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 exercise:

State Jurisdictions

- Texas Department of State Health Services
- Texas Department of Public Safety
- Texas Division of Emergency Management
- Texas State Troopers
- Texas Commission on Environmental Quality
- Texas Department of Agriculture
- Texas Animal Health Commission
- Texas Parks and Wildlife

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Texas A&M Agrilife Extension Office

Texas A&M Veterinary Emergency Team

Risk Jurisdiction

Matagorda County Judge

Matagorda County Emergency Management

Matagorda County Sheriff's Office

Bay City

Bay City Police Department

Bay City Volunteer Fire Department

Palacios Police Department

Jackson County

Fort Bend County

Support Jurisdictions

American Red Cross

Private Organizations

South Texas Project

Federal Jurisdictions

National Weather Service

Department of Energy

Environmental Protection Agency

United States Coast Guard

United States Food and Drug Administration

United States Department of Agriculture

Nuclear Regulatory Commission

Unclassified  
Radiological Emergency Preparedness Program (REP)

After Action Report/Improvement Plan

South Texas Project

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

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

The DHS/FEMA Region VI Office evaluated the exercise on June 12-13, 2018 to assess the capabilities of the 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 South Texas Project (STP). The purpose of this report is to represent the results of the findings on the performance of the offsite response organizations during a simulated radiological emergency.

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

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

### **2.3 Scenario Summary**

The exercise scenario was developed to evaluate the response of the exercise participants to an incident requiring protective actions of the public within the 10-mile Emergency Planning Zone (EPZ) surrounding the South Texas Project (STP). The Tabletop Exercise was designed to validate plans and procedures used to develop protective actions for the intermediate phase of an incident at STP to include protection of populations living in the impacted area as well as the food chain for the 50- mile Ingestion Pathway. The exercise scenario provided for the evaluation of the State of Texas and Matagorda County to make protective action decisions for the public.

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## **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 June 12-13, 2018 exercise to test the offsite emergency response capabilities of state and local governments in the 10-mile Emergency Planning Zone (EPZ) and the 50-mile Ingestion Pathway surrounding the South Texas Project (STP).

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 Program Manual. Detailed information on the exercise evaluation area criteria and the extent of play agreement used in this exercise are found in Appendix C of this report.

### **3.2 Summary Results of Exercise 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 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 Level 1, Level 2 findings assessed and no unresolved findings from prior exercises)

1 (Level 1)

2 (Level 2)

N - Not Demonstrated (Reason explained)

P - Plan Issue

Table 3.1 - Summary of Exercise Evaluation

| DATE: 2018-06-12,13<br>SITE: South Texas Project, TX |     | TDEM-SOC | DD Sub-2C Pierce | DSHS Mobile Lab | DSHS-EOF | TX FMT 1 | TX FMT 2 | JIC | Mat. Co. EOF | NWS Houston/Galveston |
|--|-----|----------|------------------|-----------------|----------|----------|----------|-----|--------------|-----------------------|
| Emergency Operations Management                      |     |          |                  |                 |          |          |          |     |              |                       |
| Mobilization   | 1a1 | M        |                  | M               | M        | M        | M        | M   | M            |                       |
| Facilities   | 1b1 |          |                  |                 |          |          |          |     |              |                       |
| Direction and Control                                | 1c1 | M        |                  | M               |          |          |          |     | M            |                       |
| Communications Equipment                             | 1d1 | M        |                  | M               | M        | M        | M        | M   | M            |                       |
| Equipment and Supplies                               | 1e1 | M        | M                | M               | M        | M        | M        | M   | M            |                       |
| Protective Action Decision Making                    |     |          |                  |                 |          |          |          |     |              |                       |
| EW Exp. Control Decisions                            | 2a1 |          |                  | M               |          |          |          |     | M            |                       |
| PARs   | 2b1 |          |                  | M               |          |          |          |     |              |                       |
| PADs   | 2b2 |          |                  |                 |          |          |          |     | M            |                       |
| PADs for Disabled/Functional Needs                   | 2c1 |          |                  |                 |          |          |          |     | M            |                       |
| Ingestion PADs                                       | 2d1 |          |                  | M               |          |          |          |     | M            |                       |
| RRR Decisions  | 2e1 | M        |                  | M               |          |          |          |     | M            |                       |
| Protective Action Implementation                     |     |          |                  |                 |          |          |          |     |              |                       |
| EW Exp. Control Implementation                       | 3a1 |          | M                | M               | M        | M        |          |     | M            |                       |
| KI Public/Institutionalized                          | 3b1 |          |                  |                 |          |          |          |     |              |                       |
| PAD Imp. Disabled/Functional Needs                   | 3c1 |          |                  |                 |          |          |          |     |              |                       |
| PAD Imp. Schools                                     | 3c2 |          |                  |                 |          |          |          |     |              |                       |
| TACP Establishment                                   | 3d1 |          |                  |                 |          |          |          |     | M            |                       |
| Impediments to Evacuation                            | 3d2 |          |                  |                 |          |          |          |     | M            |                       |
| Implementation of Ingestion PADs                     | 3e1 | M        |                  | M               |          |          |          |     | M            |                       |
| Ingestion Strategies and Information                 | 3e2 | M        |                  | M               |          |          |          |     | M            |                       |
| Imp. of RRR Decisions                                | 3f1 | M        |                  |                 |          |          |          |     | M            |                       |
| Field Measurement and Analysis                       |     |          |                  |                 |          |          |          |     |              |                       |
| RESERVED   | 4a1 |          |                  |                 |          |          |          |     |              |                       |
| Field Team Management                                | 4a2 |          |                  | M               |          |          |          |     |              |                       |
| Field Team Operations                                | 4a3 |          |                  |                 | M        | M        |          |     |              |                       |
| Field Team Sampling                                  | 4b1 |          |                  |                 | M        | M        |          |     |              |                       |
| Laboratory Operations                                | 4c1 |          | M                |                 |          |          |          |     |              |                       |
| Emergency Notification and Public Info               |     |          |                  |                 |          |          |          |     |              |                       |
| Initial Alert & Notification                         | 5a1 |          |                  |                 |          |          |          |     | M            | M                     |
| Backup Alert & Notification                          | 5a3 |          |                  |                 |          |          |          |     |              |                       |
| Exception Area Alerting                              | 5a4 |          |                  |                 |          |          |          |     |              |                       |
| Subsequent Public Information                        | 5b1 |          |                  |                 |          |          |          | M   | M            |                       |
| Support Operations/Facilities                        |     |          |                  |                 |          |          |          |     |              |                       |
| Reception Center Operations                          | 6a1 |          |                  |                 |          |          |          |     |              |                       |
| EW Monitoring & Decon                                | 6b1 |          |                  |                 |          |          |          |     |              |                       |
| Congregate Care                                      | 6c1 |          |                  |                 |          |          |          |     |              |                       |
| Contaminated Injured Transport & Care                | 6d1 |          |                  |                 |          |          |          |     |              |                       |

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## 3.3 Criteria Evaluation Summaries

### 3.3.1 State Jurisdictions

**Department of Public Safety, Disaster District Sub-2C Pierce**

**Department of State Health Services Mobile Laboratory**

**Department of State Health Services - Radiation Control Program at the Emergency Operations Facility**

**Department of State Health Services - Radiation Control Program Field Monitoring 1**

**Department of State Health Services - Radiation Control Program Field Monitoring 2**

**Texas Division of Emergency Management-State Operations Center**

In summary, the status of DHS/FEMA criteria for the State 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 Risk Jurisdictions

#### 3.3.2.1 Matagorda County Emergency Operations Center

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

### **3.3.5 Federal Jurisdictions**

#### **3.3.5.1 National Weather Service Houston/Galveston**

In summary, the status of DHS/FEMA criteria for the Federal 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

## SECTION 4: CONCLUSION

Based on the results of the exercise, the offsite radiological emergency response plans and preparedness for the State of Texas and the affected local jurisdiction 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 the South Texas Project will remain in effect.

## APPENDIX A: EXERCISE EVALUATORS AND TEAM LEADERS

DATE: 06/12-13/2018  
SITE: South Texas Project

| LOCATION  | TEAM LEADER       | AGENCY            |
|---|-------------------|-------------------|
| Department of Public Safety, Disaster District Sub-2C Pierce  | Kerris Bates      | Headquarters      |
| Department of State Health Services - Radiation Control Program at the Emergency Operations Facility  | Nan Calhoun       | FEMA Region VI    |
| Department of State Department of Health Services - Radiation Control Program Field Monitoring Team 2 | Scott Flowerday   | FEMA Region VI    |
| Department of State Health Services - Radiation Control Program Field Monitoring Team 1               | Timothy Pflieger  | FEMA Region VI    |
| Department of State Health Services Mobile Laboratory   | John Fill         | FEMA Headquarters |
| Department of State Health Services, Radiation Control Program - Headquarters                         | Brad DeKorte      | FEMA Region VI    |
| Joint Information Center, Bay City  | Alberto Sifuentes | FEMA Region 9     |
| Matagorda County Emergency Operations Center  | Linda Gee         | FEMA Region VI    |
| National Weather Service Houston/Galveston  | Elsa Lopez        | FEMA Region VI    |
| Texas Division of Emergency Management-State Operations Center  | Kerris Bates      | Headquarters      |

| LOCATION   | EVALUATOR         | AGENCY            |
|--|-------------------|-------------------|
| Department of Public Safety, Disaster District Sub-2C Pierce   | Kerris Bates      | Headquarters      |
| Department of State Health Services - Radiation Control Program at the Emergency Operations Facility           | Nan Calhoun       | FEMA Region VI    |
| Department of State Health Services - Radiation Control Program at the Emergency Emergency Operations Facility | Michael Howe      | Headquarters      |
| Department of State Health Services - Radiation Control Program Field Monitoring Team 2                        | Scott Flowerday   | FEMA Region VI    |
| Department of State Health Services - Radiation Control Program Field Monitoring Team 1                        | Timothy Pflieger  | FEMA Region VI    |
| Department of State Health Services Mobile Laboratory  | John Fill         | FEMA Headquarters |
| Joint Information Center, Bay City   | Alberto Sifuentes | FEMA Region 9     |
| Joint Information Center, Bay City   | Alonzo McSwain    | Headquarters      |
| Matagorda County Emergency Operations Center   | Sam Williams      | FEMA Region 06    |
| Matagorda County Emergency Operations Center   | Linda Gee         | FEMA Region VI    |
| Matagorda County Emergency Operations Center   | Jesse King        | Headquarters      |
| Matagorda County Emergency Operations Center   | Gregory Voss      | Region 07         |
| National Weather Service Houston/Galveston   | Elsa Lopez        | FEMA Region VI    |
| Texas Division of Emergency Management-State Operations Center   | Kerris Bates      | Headquarters      |

## APPENDIX B: ACRONYMS AND ABBREVIATIONS

| Acronym | Meaning   |
|---------|---|
| ARCA    | Areas Requiring Corrective Action               |
| AWIPS   | Advanced Weather Interactive Processing System  |
| CDE     | Committed Dose Equivalent                       |
| CP      | Control Points                                  |
| DDC     | Disaster District Committee                     |
| EAS     | Emergency Alert System                          |
| ECL     | Emergency Classification Levels                 |
| EMD     | Emergency Management Director                   |
| EOC     | Emergency Operations Center                     |
| EOF     | Emergency Operating Facility                    |
| EPA     | Environmental Protection Agency                 |
| EPZ     | Emergency Planning Zone                         |
| EW      | Emergency Worker                                |
| FMTL    | Field Monitoring Team Leader                    |
| GE      | General Emergency                               |
| HP      | Health Physicist                                |
| JIC     | Joint Information Center                        |
| MCEOC   | Matagorda County Emergency Operations Center    |
| NWS     | National Weather Service                        |
| OSA     | Offsite Staging Area                            |
| PAD     | Protective Action Decision                      |
| PAR     | Protective Action Recommendation                |
| PIO     | Public Information Officer                      |
| REP     | Radiological Emergency Preparedness             |
| SEOC    | State Emergency Operations Center               |
| STP     | South Texas Project                             |
| STPEGS  | South Texas Project Electric Generating Station |
| TEDE    | Total Effective Dose Equivalent                 |
| TLETS   | Texas Law Enforcement Telecommunications System |
| WCM     | Warning Coordination Meteorologist              |



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## APPENDIX C: EXERCISE PLAN

## EXERCISE EVALUATION AREAS AND EXTENT OF PLAY AGREEMENT

### State of Texas South Texas Project 2018 Ingestion Pathway Exercise

June 12-13, 2018

*The Assessment Areas applicable to this Ingestion Pathway Exercise (IPX) are taken from the Federal Emergency Management Agency (FEMA) Radiological Emergency Preparedness (REP) Manual. Any exception to the Assessment Areas are noted in the Extent of Play.*

*Successful demonstration of this exercise criterion will satisfy the requirements for the HSEEP Core Capabilities identified below as per the FEMA REP Program Manual dated January 2016, Part IV.H: Integration of REP Demonstration Criteria and Core Capabilities.*

| FEMA REP ASSESSMENT AREA 1:<br>EMERGENCY OPERATIONS MANAGEMENT |  |
|--|--|
| FEMA REP EVALUATION CRITERIA 1.a.1                             |  |
| <b>FEMA REP:<br/>Sub-element 1.a –<br/>Mobilization</b>        | <b>Criterion 1.a.1:</b> Off-site Response Organizations (OROs) use effective procedures to alert, notify, and mobilize emergency personnel and activate facilities in a timely manner. (NUREG-0654/FEMA-REP-1, A.1.a, e; A.3, 4; C.1, 4, 6; D.4; E.1, 2; H.3, 4) |
| <b>CORE CAPABILITY:<br/>Operational<br/>Coordination</b>       | <b>Objective 1:</b> Mobilize key emergency personnel in a timely manner.<br><b>Objective 2:</b> Demonstrate the ability to maintain and staff 24-hour operations (provide a roster).   |
| <b>CORE CAPABILITY:<br/>Operational<br/>Communications</b>     | <b>Objective 1:</b> Receive notification of an incident from STP & verify the notification in a timely manner.<br><b>Objective 2:</b> Contact and alert key emergency personnel in a timely manner.  |

**EXTENT OF PLAY – DAY 1:**

- State Response personnel and mobile assets will pre-stage at the DSHS staging area in Bay City.
- Regardless of the scenario, no facilities/activities will relocate during this exercise.
- The SOC will not be staffed or activated. All exercise play and communications will be simulated, however, emergency notifications will still be delivered to the SOC.
- DSHS HQ will not be evaluated, however, communications made to DSHS staff in Bay City will still take place until the DSHS team at the STP EOF is activated.
- Four (4) to Six (6) Field Monitoring Teams may be deployed for training purposes. Only (2) teams will be evaluated. Drill evaluators may be required to travel in separate vehicles due to space restrictions in DPS vehicles. Radios will be provided to evaluators if this happens.
- DOE RAP Team will be co-located with field teams and pre-staged at the DSHS staging area.
- Disaster District Committee personnel not stationed at DD Sub-2C EOC may be pre-staged.
- An extra dispatcher will be placed on duty at the Matagorda County Sheriff's office, in Bay City, to handle the regular workload.
- Non-local TDEM personnel will be pre-staged in the area.

**Evaluated Organizations and Locations:**

- Texas Department of Public Safety (DPS), Texas Division of Emergency Management (TDEM)
  - Disaster District Center Sub-2 (DDC), Pierce, TX
  - Joint Information Center (JIC)
  - Field Monitoring Teams (FMTs) at DSHS Staging Area, Bay City
- Texas Department of State Health Services (DSHS) Radiation Control Program (RCP)
  - Field Monitoring Teams (FMTs) at DSHS Staging Area, Bay City, TX
  - South Texas Project (STP) Emergency Operations Facility (EOF), Bay City, TX
  - Joint Information Center (JIC)
  - Liaisons at SOC, DDC, and Matagorda County EOC
- Matagorda County
  - Matagorda County Emergency Operations Center (MCEOC), Bay City, TX
  - Joint Information Center (JIC)

**EXTENT OF PLAY – DAY 2:**

- This criterion will not be evaluated on day two if all evaluation objectives have been met on day one.
- Participants on day 2 will only be at one of two locations: The DSHS staging area where state and federal ingestion response activities will be demonstrated, and the Table Top Exercise where lead decision-makers of Federal, State and local agencies and public information staff will be answering questions regarding Return, Re-entry and Relocation and Agriculture.
- All notifications and communications will be made in accordance with plans and procedures, however, will be simulated where facilities are not activated for this day of the drill.

- All Day 2 Federal and State exercise participants at the DSHS Staging Area will pre-stage. DSHS Staff normally assigned to support the EOF and other emergency support facilities will be demonstrating those duties at the Staging Area.
- Exercise participants at both locations will demonstrate communicating to other response organizations in accordance to plans and procedures, however, all communication to facilities not participating on day two will be simulated.
- At the DSHS Staging Area 4-6 Field Monitoring Teams will be deployed for training purposes. Only (2) teams will be evaluated. Drill evaluators may be required to travel in separate vehicles due to space restrictions in DPS vehicles.

Evaluated Organizations and Locations:

- DPS - TDEM
  - Table Top Exercise
    - SOC Representative
    - DDC Representative
    - JIC Representative
  - Field Teams at DSHS Staging Area
- DSHS - RCP
  - Table Top Exercise
    - STP EOF Representative
    - JIC Representative
  - DSHS Staging Area
    - STP EOF
    - FMTs
    - Mobile Lab & Sample Prep
- Matagorda County
  - Table Top Exercise
    - MCEOC Representative
    - JIC Representative

**FEMA REP EVALUATION CRITERIA 1.c.1**

|  |  |
|--|--|
| <b>FEMA REP:<br/>Sub-element 1.c –<br/>Direction and<br/>Control</b> | <b>Criterion 1.c.1:</b> Key personnel with leadership roles for the ORO provide direction and control to that part of the overall response effort for which they are responsible. ( <i>NUREG-0654/FEMA-REP-1, A.1.d; A. 2.a, b; A.3; C.4, 6</i> )                                  |
| <b>CORE CAPABILITY:<br/>Operational<br/>Communications</b>           | <b>Objective 1:</b> Leadership personnel demonstrate the ability to carry out essential management functions in accordance to plans and procedures.<br><br><b>Objective 1:</b> Leadership personnel coordinate with other OROs, to ensure completion of requirements and requests. |

|   |   |
|---|---|
| <b>CORE CAPABILITY:<br/>Situational<br/>Assessment</b>  | <p><b>Objective 1:</b> Leadership personnel demonstrate the ability to prioritize resource tasking and replacement/supplement resources.</p> <p><b>Objective 2:</b> Leadership personnel demonstrate the ability to keep staff informed through periodic briefings and/or other means.</p>                          |
| <p><b><u>EXTENT OF PLAY – DAY 1:</u></b></p> <ul style="list-style-type: none"> <li>All activities will not deviate from plans and procedures.</li> </ul> <p><u>Evaluated Organizations and Locations:</u></p> <ul style="list-style-type: none"> <li>DPS - TDEM <ul style="list-style-type: none"> <li>- DDC</li> </ul> </li> <li>DSHS – RCP <ul style="list-style-type: none"> <li>- STP EOF</li> </ul> </li> <li>Matagorda County <ul style="list-style-type: none"> <li>- MCEOC</li> </ul> </li> </ul> <p><b><u>EXTENT OF PLAY – DAY 2:</u></b></p> <ul style="list-style-type: none"> <li>All activities will not deviate from plans and procedures.</li> </ul> <p><u>Evaluated Organizations and Locations:</u></p> <ul style="list-style-type: none"> <li>DPS - TDEM <ul style="list-style-type: none"> <li>- Table Top Exercise <ul style="list-style-type: none"> <li>o SOC Representative</li> <li>o DDC Representative</li> </ul> </li> </ul> </li> <li>DSHS - RCP <ul style="list-style-type: none"> <li>- Table Top Exercise <ul style="list-style-type: none"> <li>o STP EOF Representative</li> </ul> </li> <li>- DSHS Staging Area <ul style="list-style-type: none"> <li>o STP EOF</li> </ul> </li> </ul> </li> <li>Matagorda County <ul style="list-style-type: none"> <li>- Table Top Exercise <ul style="list-style-type: none"> <li>o MCEOC Representatives</li> </ul> </li> </ul> </li> </ul> |   |
| <b>FEMA REP EVALUATION CRITERIA 1.d.1</b>   |   |
| <b>FEMA REP:<br/>Sub-element 1.d –<br/>Communications<br/>Equipment</b>   | <p><b>Criterion 1.d.1:</b> At least two communication systems are available, at least one operates properly, and communication links are established and maintained with appropriate locations. Communications capabilities are managed in support of emergency operations.<br/>(NUREG-0654/FEMA-REP-1, F.1, 2)</p> |
| <b>CORE CAPABILITY:<br/>Operational<br/>Communications</b>  | <p><b>Objective 1:</b> Demonstrate that a primary system and at least one backup system are fully functional at all times.</p>  |

|  |  |
|--|--|
|  | <p><b>Objective 2:</b> Communications equipment and procedures for facilities and field units are used as needed for transmission and receipt of exercise messages</p> <p><b>Objective 3:</b> Demonstrate the capability to manage the communications systems and ensure that all message traffic is handled without delays that might disrupt emergency operations.</p> |
|--|--|

**EXTENT OF PLAY – DAY 1:**

- A controller phone cell will be established to ensure appropriate communications are accomplished and to ensure fluid exercise play.
- Correction on the spot requested, for local agencies. \*

**Evaluated Organizations and Locations:**

- DPS - TDEM
  - DDC
  - JIC
  - FMTs
- DSHS – RCP
  - FMTs
  - STP EOF
  - JIC
  - Liaisons at SOC, DDC, and County EOC
- Matagorda County
  - MCEOC
  - JIC

**EXTENT OF PLAY – DAY 2:**

- Communications made to facilities not physically activated during day 2 will be simulated.

**Evaluated Organizations and Locations:**

- DPS - TDEM
  - Table Top Exercise
    - o SOC Representative
    - o DDC Sub-2 Representative
    - o JIC Representative
  - DSHS Staging Area
    - o FMTs
- DSHS - RCP
  - Table Top Exercise
    - o STP EOF Representative
    - o JIC Representative
  - DSHS Staging Area
    - o STP EOF
    - o FMTs
- Matagorda County
  - Table Top Exercise

- MCEOC Representatives
- JIC Representative

### FEMA REP EVALUATION CRITERIA 1.e.1

**FEMA REP:  
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 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*)

**CORE CAPABILITY:  
Environmental  
Response/ Health  
and Safety**

**Objective 1:** Demonstrate sufficient inventories of KI for use by emergency workers and as stipulated by plans and procedures. (A physical inspection will be done to verify quantity and expiration date.)

**Objective 2:** Sufficient quantities of appropriate direct-reading and permanent record dosimetry and dosimeter chargers are available for issuance to all emergency workers dispatched to conduct activities in areas where potential exposure is possible (including bus drivers evacuating schools, first responders, and persons re-entering a traffic access control point).

**Objective 3:** Monitoring instruments are inspected, inventoried, and operationally checked before use. Instruments are calibrated in accordance with the manufacturer's recommendations and a range-of-reading label/sticker is affixed to the instrument.

**Objective 4:** All responders have sufficient equipment, maps, displays and other supplies to support emergency operations at their deployed location.

### EXTENT OF PLAY – DAY 1:

- Donning and doffing of anti-contamination clothing will be demonstrated out of sequence by one player, and will not be worn during the exercise.
- Activated charcoal filters will be used in lieu of silver zeolite filters for exercise purposes but FMTs will demonstrate availability of silver zeolite filters.
- Field Monitoring Team Equipment not required to demonstrate exercise objectives may be left at the DSHS Staging Area to allow for additional space within the vehicles.
- Correction on the spot requested. \*

### Evaluated Organizations and Locations:

- DPS - TDEM
  - DDC
  - JIC
  - FMTs
- DSHS – RCP

- FMTs
- STP EOF
- JIC
- Mobile Lab
- Sample Prep Team
- 
- Matagorda County
  - MCEOC
  - JIC

**EXTENT OF PLAY – DAY 2:**

- Determining the level of PPE will be at the discretion of the FMT Controller and FEMA Evaluator. Gloves may be worn during field deployment and handling of samples to demonstrate contamination control measures in accordance to procedure.
- Donning and doffing of anti-contamination clothing will not be demonstrated on Day 2.
- FMT Equipment not required to demonstrate exercise objectives may be left at the DSHS Staging Area to allow for additional space within the vehicles.
- Correction on the spot requested. \*

**Evaluated Organizations and Locations:**

- DSHS - RCP
  - DSHS Staging Area
    - FMTs

**FEMA REP ASSESSMENT AREA 2:  
PROTECTIVE ACTION DECISION-MAKING**

**FEMA REP EVALUATION CRITERIA 2.a.1**

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| <b>FEMA REP:<br/>Sub-element 2.a –<br/>Emergency Worker<br/>Exposure Control</b> | <b>Criterion 2.a.1:</b> OROs use a decision-making process, considering relevant factors and appropriate coordination, to insure that an exposure control system, including the use of KI, is in place for emergency workers including provisions to authorize radiation exposure in excess of administrative limits or protective action guides. <i>(NUREG-0654/FEMA-REP-1, C.6; J. 10.e, f; K.4)</i>   |
| <b>CORE CAPABILITY:<br/>Environmental<br/>Response/Health and<br/>Safety</b>     | <p><b>Objective 1:</b> Demonstrate a capability to comply with emergency worker exposure limits based on emergency plans and procedures.</p> <p><b>Objective 2:</b> Demonstrate the distribution and administration of KI as a protective measure for emergency workers.</p>   |
| <b>CORE CAPABILITY:<br/>Situational<br/>Assessment</b>                           | <p><b>Objective 1:</b> Leadership personnel demonstrate the capability to make decisions concerning authorization of exposure levels in excess of pre-authorized levels and the numbers of emergency workers receiving radiation doses above pre-authorized levels.</p> <p><b>Objective 2:</b> Leadership personnel demonstrate the capability to make decisions on the distribution of KI based on projected thyroid dose compared with the established PAGs for KI administration.</p> |



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| <b>CORE CAPABILITY:<br/>Operational<br/>Communications</b>  | <b>Objective 1:</b> Demonstrate delivery/transmission of recommendation to administer KI to all OROs impacted by this decision.   |
| <b><u>EXTENT OF PLAY – DAY 1:</u></b> <ul style="list-style-type: none"> <li>• Distribution and Ingestion of KI will be simulated during the exercise.</li> <li>• If projected thyroid dose does not trigger administration of KI during exercise play, the FEMA evaluator can interview player(s) on the administration process during a time agreed upon by the controller and evaluator.</li> </ul> <p><u>Evaluated Organizations and Locations:</u></p> <ul style="list-style-type: none"> <li>• DSHS – RCP <ul style="list-style-type: none"> <li>- STP EOF</li> </ul> </li> <li>• Matagorda County <ul style="list-style-type: none"> <li>- MCEOC</li> </ul> </li> </ul> <p><b><u>EXTENT OF PLAY – DAY 2:</u></b></p> <ul style="list-style-type: none"> <li>• Distribution and ingestion of KI will not be demonstrated on Day 2.</li> </ul> |   |
| <b>FEMA REP EVALUATION CRITERIA 2.b.1</b>   |   |
| <b>FEMA REP:<br/>Sub-element 2.b –<br/>Radiological<br/>Assessment and<br/>Protective Action<br/>Recommendations<br/>and Decisions for the<br/>Plume Phase of the<br/>Emergency</b>   | <b>Criterion 2.b.1:</b> Appropriate protective action recommendations (PARs) are based on available information on plant conditions, field monitoring data, and licensee and ORO dose projections, as well as knowledge of on-site and off-site environmental conditions. (NUREG-0654/FEMA-REP-1, I.10; Supp.3)   |
| <b>CORE CAPABILITY:<br/>Environmental<br/>Response/Health and<br/>Safety</b>  | <b>Objective 1:</b> Demonstrate the capability to use appropriate means described in plans and procedures to develop protective action recommendations (PARs) for decision-makers based on available information provided by the licensee, as well as field monitoring data, if available.  |
| <b>CORE CAPABILITY:<br/>Situational<br/>Assessment</b>  | <p><b>Objective 1:</b> Demonstrate a reliable capability to independently validate plant (source term) assessments by calculating dose projections related to quantities and units of the PAG to which they are being compared.</p> <p><b>Objective 2:</b> Demonstrate the capability to use any additional data to refine projected doses and exposure rates and revise associated PARs.</p> |

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|   | <b>Objective 3:</b> If licensee and ORO projected doses differ by more than a factor of 10, the source of the difference must be determined.  |
| <b>CORE CAPABILITY:<br/>Operational<br/>Communications</b>  | <b>Objective 1:</b> Demonstrate delivery/transmission of protective action recommendations to all ORO decision-makers in a timely manner.   |
| <b><u>EXTENT OF PLAY – DAY 1:</u></b> <ul style="list-style-type: none"> <li>All activities will not deviate from plans and procedures.</li> </ul> <p><u>Evaluated Organizations and Locations:</u></p> <ul style="list-style-type: none"> <li>DSHS – RCP</li> <li>- STP EOF</li> </ul> <p><b><u>EXTENT OF PLAY – DAY 2:</u></b></p> <ul style="list-style-type: none"> <li>This criterion will not be evaluated on day 2.</li> </ul> |   |
| <b>FEMA REP EVALUATION CRITERIA 2.b.2</b>   |   |
| <b>FEMA REP:<br/>Sub-element 2.b –<br/>Radiological<br/>Assessment and<br/>Protective Action<br/>Recommendations<br/>and Decisions for the<br/>Plume Phase of the<br/>Emergency</b>   | <b>Criterion 2.b.2:</b> A decision-making process involving consideration of appropriate factors and necessary coordination is used to make protective action decisions (PADs) for the general public. (NUREG-0654/FEMA-REP-1, A.3; C.4, 6; D.4; J.9; J.10.f, m)  |
| <b>CORE CAPABILITY:<br/>Operational<br/>Coordination</b>  | <b>Objective 1:</b> Demonstrate the capability to provide strategic direction by use of appropriate means described in plans and procedures to make both initial and subsequent precautionary and/or protective action decisions for the general public.  |
| <b>CORE CAPABILITY:<br/>Situational<br/>Assessment</b>  | <b>Objective 1:</b> Consider information from the licensee, assessment of plant status and potential or actual releases, other available information related to the incident, input from appropriate ORO authorities, and PARs from the utility and ORO staff when making protective action decisions for the general public. |
| <b>CORE CAPABILITY:<br/>Operational<br/>Communications</b>  | <b>Objective 1:</b> Demonstrate delivery/transmission of protective action decisions to the general public (residents, transients, and emergency responders) in a timely manner.  |
| <b><u>EXTENT OF PLAY – DAY 1:</u></b> <ul style="list-style-type: none"> <li>The protective actions that result from this decision-making process will not be implemented. No members of the public will be evacuated and no schools will be relocated.</li> </ul>  |   |

Evaluated Organizations and Locations:

- Matagorda County
- MCEOC

**EXTENT OF PLAY – DAY 2:**

- This criterion will not be evaluated on day 2.

**FEMA REP EVALUATION CRITERIA 2.c.1**

**FEMA REP:  
Sub-element 2.c –  
Precautionary and/or  
Protective Action  
Decision  
Consideration for the  
Protection of Persons  
with Disabilities and  
Access/Functional  
Needs**

**Criterion 2.c.1:** Protective action decisions are made, as appropriate, for groups of persons with disabilities and access/functional needs. *(NUREG-0654/FEMA-REP-1, D.4; J.9; J.10.d, e)*

**CORE CAPABILITY:  
Operational  
Coordination**

**Objective 1:** Demonstrate the capability to provide strategic direction by use of appropriate means described in plans and procedures to make both initial and subsequent precautionary and/or protective action decisions for persons with disabilities and access/functional needs.

**CORE CAPABILITY:  
Situational  
Assessment**

**Objective 1:** Consider information from the licensee, assessment of plant status and potential or actual releases, other available information related to the incident, input from appropriate ORO authorities, and PARs from the utility and ORO staff when making protective action decisions for persons with disabilities and access/functional needs.

**CORE CAPABILITY:  
Operational  
Communications**

**Objective 1:** Demonstrate delivery/transmission of protective action decisions to persons with disabilities and access/functional needs in a timely manner.

**EXTENT OF PLAY – DAY 1:**

- Protective actions for access/functional needs individuals will be considered at the MCEOC; however, actual demonstration of protective actions will not be performed.
- MCEOC staff will demonstrate this criterion through discussion and showing the evaluator a roster of access/functional needs individuals in the 10-mile emergency planning zone.
- Should a County PAD include ingestion of KI for persons with disabilities and access/functional needs, this will be accomplished via message inject or, if dose projections do not reach 5R for those populations, it will be accomplished via interview.

Evaluated Organizations and Locations:

- Matagorda County

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| <p style="text-align: center;">- MCEOC</p> <p><b><u>EXTENT OF PLAY – DAY 2:</u></b></p> <ul style="list-style-type: none"> <li>This criterion will not be demonstrated on day 2.</li> </ul>   |   |
| <p><b>FEMA REP EVALUATION CRITERIA 2.d.1</b></p>  |   |
| <p><b>FEMA REP:</b><br/><b>Sub-element 2.d – Radiological Assessment and Decision Making for the Ingestion Exposure Pathway</b></p>   | <p><b>Criterion 2.d.1:</b> Radiological consequences for the ingestion pathway are assessed and appropriate protective action decisions are made based on the ORO's planning criteria. (NUREG-0654/FEMA-REP-1, A.3; C.1,4; D.4; J.9,11)</p>   |
| <p><b>CORE CAPABILITY:</b><br/><b>Environmental Response/Health and Safety</b></p>  | <p><b>Objective 1:</b> Develop a sample plan to assess and evaluate the analysis of food, water, and other ingestible substances of local interest from potentially impacted areas.</p>   |
| <p><b>CORE CAPABILITY:</b><br/><b>Situational Assessment</b></p>  | <p><b>Objective 1:</b> Use procedures to assess the radiological consequences of a release on the food and water supplies and compare these impacts to the appropriate ingestion PAGs.</p> <p><b>Objective 2:</b> Consider use of agricultural and watershed data within the 50-mile EPZ</p>  |
| <p><b>CORE CAPABILITY:</b><br/><b>Economic Recovery</b></p>   | <p><b>Objective 1:</b> Provide protective action recommendations to the agricultural community and industries regarding proper handling and prevention of contaminated and/or potentially contaminated food products.</p> <p><b>Objective 2:</b> Demonstrate the ability to embargo or temporarily hold agricultural products in order to prevent food/products from being introduced into commerce prior to confirming whether or not they are contaminated.</p> |
| <p><b><u>EXTENT OF PLAY – DAY 1:</u></b></p> <ul style="list-style-type: none"> <li>This criterion will not be evaluated on day 1, unless FEMA evaluates related activities that are demonstrated during the Advanced Party Meeting.</li> </ul> <p><b><u>EXTENT OF PLAY – DAY 2:</u></b></p> <ul style="list-style-type: none"> <li>DSHS players originally assigned to the STP EOF will be located at the DSHS staging area.</li> <li>During the table top exercise, the Texas SOC and Matagorda County EOC will only perform a coordination role with DSHS and other State Agricultural agencies as per state policy.</li> <li>Any discussions that participating agricultural agencies and ingestion pathway counties provide during the Ingestion Tabletop will be noted, however, these exercise participants will not be given any FEMA Plan Issues or Level 1 or 2 Findings in the after action report.</li> </ul> |   |

- Moderated discussions that take place during the Ingestion Tabletop will include questions to drive certain demonstration requirements of this evaluation criteria. FEMA evaluators will be allowed during discussions and at the end of the Tabletop to ask follow-up questions if needed.

Evaluated Organizations and Locations:

- DPS - TDEM
  - Table Top Exercise
    - o SOC Representative
- DSHS - RCP
  - Table Top Exercise
    - o STP EOF Representatives
  - DSHS Staging Area
    - o STP EOF
- Matagorda County
  - Table Top Exercise
    - o MCEOC Representatives

**FEMA REP EVALUATION CRITERIA 2.e.1**

**FEMA REP:  
Sub-element 2.e –  
Radiological  
Assessment and  
Decision Making  
Concerning Post-  
Plume Phase  
Relocation, Reentry,  
and Return**

**Criterion 2.e.1:** Timely post-plume phase relocation, reentry, and return decisions are made and coordinated as appropriate, based on assessments of the radiological conditions and criteria in the ORO's plan and/or procedures. (*NUREG-0654/FEMA-REP-1, I.10; J.9; K.3.a; M.1*)

**CORE CAPABILITY:  
Environmental  
Response/Health and  
Safety**

**Objective 1:** Demonstrate the ability to make decisions for relocating members of the evacuated public who lived in areas that now have residual radiation levels in excess of the PAGs

**Objective 2:** Demonstrate the ability to identify members of the public who were not initially instructed to evacuate and are located in an area where actual or projected doses are in excess of relocation PAGs.

**Objective 3:** Demonstrate the ability to develop a strategy for authorized reentry of individuals into the restricted zone(s) based on established decisions and anticipate what policies may need to be modified in order to implement this strategy.

**Objective 4:** Demonstrate the capability to implement policies concerning return of members of the public to areas that were evacuated during the plume phase, including the cancellation and/or relaxation of associated restrictive measures.

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|   | <p><b>Objective 5:</b> Demonstrate the capability to terminate the emergency and enter into the recovery including informing the State of the opportunity to relax protective actions. <i>(STP – M-1)</i></p> <p><b>Objective 6:</b> Demonstrate methods used to inform members of the response organizations of entry into recovery, including any organizational structural changes that will be implemented. <i>(STP – M-3)</i></p> |
| <b>CORE CAPABILITY:<br/>Situational<br/>Assessment</b>  | <p><b>Objective 1:</b> Determine and identify areas of restriction (relocation, reentry, and return) based on factors such as the mix of radionuclides in deposited materials, calculated exposure rates versus the PAGs, and analysis of vegetation and soil field samples.</p> <p><b>Objective 2:</b> Demonstrate the ability to periodically estimate total population exposure. <i>(STP – M-4)</i></p>                             |
| <b>CORE CAPABILITY:<br/>Economic Recovery</b>   | <p><b>Objective 1:</b> Identify services and facilities that require restoration within a few days and identify the procedures and resources for their restoration.</p> <p><b>Objective 2:</b> Demonstrate the ability to identify and establish a recovery organization. <i>(STP – M-2)</i></p>   |
| <b>CORE CAPABILITY:<br/>Health and Social<br/>Services</b>  | <p><b>Objective 1:</b> Identify health and social services and resources needed to assist the impacted population.</p>   |
| <b>CORE CAPABILITY:<br/>Housing</b>   | <p><b>Objective 1:</b> Identify both permanently and temporary housing resources for displaced populations.</p>  |
| <p><b><u>EXTENT OF PLAY – DAY 1:</u></b></p> <ul style="list-style-type: none"> <li>This criterion will not be evaluated on day 1.</li> </ul> <p><b><u>EXTENT OF PLAY – DAY 2:</u></b></p> <ul style="list-style-type: none"> <li>Moderated discussions that take place during the Ingestion Tabletop will include questions to drive certain demonstration requirements of this evaluation criteria. FEMA evaluators will be allowed during discussions and at the end of the Tabletop to ask follow-up questions if needed.</li> </ul> <p><b><u>Evaluated Organizations and Locations:</u></b></p> <ul style="list-style-type: none"> <li>DPS - TDEM <ul style="list-style-type: none"> <li>Table Top Exercise <ul style="list-style-type: none"> <li>SOC Representative</li> </ul> </li> </ul> </li> <li>DSHS - RCP <ul style="list-style-type: none"> <li>Table Top Exercise</li> </ul> </li> </ul> |  |

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| <ul style="list-style-type: none"> <li>○ STP EOF Representatives</li> <li>- DSHS Staging Area</li> <li>○ STP EOF</li> <li>• Matagorda County <ul style="list-style-type: none"> <li>- Table Top Exercise</li> <li>○ MCEOC Representatives</li> </ul> </li> <li>• South Texas Project <ul style="list-style-type: none"> <li>- Table Top Exercise</li> <li>○ STP EOF</li> </ul> </li> </ul>  |   |
| <b>FEMA REP ASSESSMENT AREA 3:<br/>PROTECTIVE ACTION IMPLEMENTATION</b>   |   |
| <b>FEMA REP EVALUATION CRITERIA 3.a.1</b>   |   |
| <b>FEMA REP:<br/>Sub-element 3.a –<br/>Implementation of<br/>Emergency Worker<br/>Exposure Control</b>  | <b>Criterion 3.a.1:</b> 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. <i>(NUREG-0654/FEMA-REP-1, K.3.a, b; K.4)</i>  |
| <b>CORE CAPABILITY:<br/>Environmental<br/>Response/Health and<br/>Safety</b>  | <p><b>Objective 1:</b> Demonstrate the issuance of appropriate dosimetry, KI, and procedures.</p> <p><b>Objective 2:</b> Demonstrate the ability to manage radiological exposure to emergency workers in accordance with plans and procedures.</p> <p><b>Objective 3:</b> Demonstrate emergency worker's ability to periodically and at the end of each mission read their dosimeters and record the readings on the appropriate exposure record or chart.</p> <p><b>Objective 4:</b> Maintain appropriate record-keeping of the administration of KI to emergency workers.</p> |
| <b><u>EXTENT OF PLAY – DAY 1:</u></b> <ul style="list-style-type: none"> <li>• Exercise TLDs will be used for the exercise. TLDs for real events are packaged in the Emergency Planner box at the staging area. DSHS Emergency Planners can show evaluator real TLDs at staging area.</li> <li>• Issuance and administration of KI will be simulated.</li> <li>• Correction on the spot requested. *</li> </ul> <p><b><u>Evaluated Organizations and Locations:</u></b></p> <ul style="list-style-type: none"> <li>• DSHS – RCP <ul style="list-style-type: none"> <li>- FMTs</li> <li>- STP EOF</li> <li>- Mobile Lab</li> </ul> </li> </ul> |   |

- Sample Prep Team
- Matagorda County
- MCEOC

**EXTENT OF PLAY – DAY 2:**

- Exercise TLDs will be used for the exercise. TLDs for real events are packaged in the Emergency Planner box at the staging area. DSHS Emergency Planners can show evaluator real TLDs at staging area.
- Issuance and administration of KI will not be demonstrated for Day 2 ingestion phase activities.
- Correction on the spot requested. \*

**Evaluated Organizations and Locations:**

- DSHS – RCP
  - FMTs
  - STP EOF
  - Mobile Lab
  - Sample Prep Team

**FEMA REP EVALUATION CRITERIA 3.b.1**

**FEMA REP:  
Sub-element 3.b –  
Implementation of  
KI Decision for  
Institutionalized  
Individuals and the  
General Public**

**Criterion 3.b.1:** KI and appropriate instructions are available should a decision to recommend use of KI is made. Appropriate record-keeping of the administration of KI for institutionalized individuals is maintained. (NUREG-0654, J.10.e, f.)

**CORE CAPABILITY:  
Environmental  
Response/Health and  
Safety**

**Objective 1:** Demonstrate the capability to make KI available to institutionalized individuals, and, where provided for in their plans and procedures.

**EXTENT OF PLAY – DAY 1:**

- No special populations exist within the 10-mile EPZ. Demonstration of this criteria will be done by interview as necessary and during a time agreed upon by the controller and evaluator.
- The State of Texas does not issue KI to members of the general public.
- Correction on the spot requested. \*

**Evaluated Organizations and Locations:**

- Matagorda County
- MCEOC

**EXTENT OF PLAY – DAY 2:**

- This criterion will not be evaluated on day 2.



| <b>FEMA REP EVALUATION CRITERIA 3.d.1</b>  |  |
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| <b>FEMA REP:<br/>Sub-element 3.d –<br/>Implementation of<br/>Traffic and Access<br/>Control</b>  | <b>Criterion 3.d.1:</b> Appropriate traffic and access control is established. Accurate instructions are provided to traffic and access control personnel. <i>(NUREG-0654/FEMA-REP-1, A.3; C.1,4; J.10.g, j)</i>   |
| <b>CORE CAPABILITY:<br/>Operational<br/>Coordination</b>   | <p><b>Objective 1:</b> Demonstrate the capability to select, establish, and staff appropriate traffic and access control points consistent with current conditions and PADs in a timely manner.</p> <p><b>Objective 2:</b> Provide accurate instructions to traffic and access control staff on actions to take when modifications are made to traffic patterns.</p> |
| <b>CORE CAPABILITY:<br/>On-Scene Security<br/>and Protection</b>   | <b>Objective 1:</b> Demonstrate roles and responsibilities, including verifying emergency worker identification and access authorization to the affected areas (by interview)  |
| <p><b><u>EXTENT OF PLAY – DAY 1:</u></b></p> <ul style="list-style-type: none"> <li>Traffic and access control point personnel will be interviewed out-of-sequence at a time agreed upon by the controller and evaluator.</li> <li>Correction on the spot requested. *</li> </ul> <p><u>Evaluated Organizations and Locations:</u></p> <ul style="list-style-type: none"> <li>Matagorda County</li> <li>- MCEOC</li> </ul> <p><b><u>EXTENT OF PLAY – DAY 2:</u></b></p> <ul style="list-style-type: none"> <li>This criterion will not be evaluated on day 2.</li> </ul> |  |
| <b>FEMA REP EVALUATION CRITERIA 3.d.2</b>  |  |
| <b>FEMA REP:<br/>Sub-element 3.d –<br/>Implementation of<br/>Traffic and Access<br/>Control</b>  | <b>Criterion 3.d.2:</b> Impediments to evacuation are identified and resolved. <i>(NUREG-0654/FEMA-REP-1, J.10.k)</i>  |
| <b>CORE CAPABILITY:<br/>Operational<br/>Coordination</b>   | <p><b>Objective 1:</b> Demonstrate the capability to identify impediments to evacuations and take appropriate actions by re-routing traffic.</p> <p><b>Objective 2:</b> Coordinate with the JIC to communicate the alternate route to evacuees.</p>  |

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| <b>CORE CAPABILITY:<br/>Infrastructure<br/>Systems</b>  | <b>Objective 1:</b> Demonstrate the capability to dispatch resources used to support clearing of roadways.  |
| <b><u>EXTENT OF PLAY – DAY 1:</u></b> <ul style="list-style-type: none"> <li>This criterion will be demonstrated by inject.</li> <li>No impediment will actually occur, however, the situation and solution will be discussed in the MCEOC.</li> <li>A controller inject may be used to initiate the demonstration for this Criterion. The inject will occur during an evacuation requiring re-routing of traffic and coordination with the Joint Information Center for dissemination to the evacuating public.</li> <li>Correction on the spot requested. *</li> </ul> <p><u>Evaluated Organizations and Locations:</u></p> <ul style="list-style-type: none"> <li>Matagorda County</li> <li>- MCEOC</li> </ul> <p><b><u>EXTENT OF PLAY – DAY 2:</u></b></p> <ul style="list-style-type: none"> <li>This criterion will not be evaluated on day 2.</li> </ul> |   |
| <b>FEMA REP EVALUATION CRITERIA 3.e.1</b>   |   |
| <b>FEMA REP:<br/>Sub-element 3.e –<br/>Implementation of<br/>Ingestion Exposure<br/>Pathway Decisions</b>   | <b>Criterion 3.e.1:</b> The ORO demonstrates the availability and appropriate use of adequate information regarding water, food supplies, milk, and agricultural production within the ingestion exposure pathway emergency planning zone for implementation of protective actions. (NUREG-0654/FEMA-REP-1, A.3; C.1,4; J.11) |
| <b>CORE CAPABILITY:<br/>Planning</b>  | <b>Objective 1:</b> Demonstrate the capability to secure and use current information on the locations of dairy farms, meat and poultry producers, fisheries, fruit growers, vegetable growers, grain producers, food processing plants, and water supply intake points.   |
| <b>CORE CAPABILITY:<br/>Economic Recovery</b>   | <b>Objective 1:</b> Demonstrate the ability to implement protective actions within the ingestion emergency planning zone by using the above current information.  |
| <b><u>EXTENT OF PLAY – DAY 1:</u></b> <ul style="list-style-type: none"> <li>This criterion will not be evaluated on day 1. FEMA will observe related activities that are demonstrated during the Advanced Party Meeting.</li> </ul> <p><b><u>EXTENT OF PLAY – DAY 2:</u></b></p> <ul style="list-style-type: none"> <li>The Texas SOC and Matagorda County EOC will only perform a coordination role with DSHS and other State Agricultural agencies during the Ingestion Tabletop.</li> <li>Any discussions that participating agricultural agencies and ingestion pathway counties provide during the Ingestion Tabletop will be noted, however, these exercise participants will not be given any FEMA Plan Issues or Level 1 or 2 Findings in the after action report.</li> </ul>  |   |

- Moderated discussions that take place during the Ingestion Tabletop will include questions to drive certain demonstration requirements of this evaluation criteria. FEMA evaluators will be allowed during discussions and at the end of the Tabletop to ask follow-up questions if needed.

Evaluated Organizations and Locations:

- DPS - TDEM
  - Table Top Exercise
    - SOC Representative
- DSHS - RCP
  - Table Top Exercise
    - STP EOF Representatives
  - DSHS Staging Area
    - STP EOF
- Matagorda County
  - Table Top Exercise
    - MCEOC Representatives

**FEMA REP EVALUATION CRITERIA 3.e.2**

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|---|--|
| <b>FEMA REP:<br/>Sub-element 3.e –<br/>Implementation of<br/>Ingestion Exposure<br/>Pathway Decisions</b> | <b>Criterion 3.e.2:</b> Appropriate measures, strategies, and pre-printed instructional material are developed for implementing protective action decisions for contaminated water, food products, milk, and agricultural production. <i>(NUREG-0654/FEMA-REP-1, G.1; J.9,11)</i>  |
| <b>CORE CAPABILITY:<br/>Operational<br/>Coordination</b>  | <p><b>Objective 1:</b> Demonstrate the development of measures and strategies for implementation of ingestion exposure pathway EPZ protective actions by formulating protective action information for the general public and food producers and processors.</p> <p><b>Objective 2:</b> Demonstrate coordination and communication amongst organizations to control, restrict, or prevent distribution of contaminated food by commercial sectors.</p> |
| <b>CORE CAPABILITY:<br/>Economic Recovery</b>   | <b>Objective 1:</b> Provide pre-distributed public information material to those impacted in the ingestion exposure pathway EPZ or describe the capability for rapid reproduction and distribution of appropriate information and instructions to the pre-determined individuals and businesses.   |

**EXTENT OF PLAY – DAY 1:**

- This criterion will not be evaluated on day 1. FEMA will observe related activities that are demonstrated during the Advanced Party Meeting.

**EXTENT OF PLAY – DAY 2:**

- Actual communications with food producers and processors will be simulated.
- The Texas SOC and Matagorda County EOC will only perform a coordination role with DSHS and other State Agricultural agencies during the Ingestion Tabletop.
- Any discussions that participating agricultural agencies and ingestion pathway counties provide during the Ingestion Tabletop will be noted, however, these exercise participants will not be given any FEMA Plan Issues or Level 1 or 2 Findings in the after action report.
- Moderated discussions that take place during the Ingestion Tabletop will include questions to drive certain demonstration requirements of this evaluation criteria. FEMA evaluators will be allowed during discussions and at the end of the Tabletop to ask follow-up questions if needed.

Evaluated Organizations and Locations:

- DPS - TDEM
  - Table Top Exercise
    - SOC Representative
- DSHS - RCP
  - Table Top Exercise
    - STP EOF Representatives
- Matagorda County
  - Table Top Exercise
    - MCEOC Representatives

**FEMA REP EVALUATION CRITERIA 3.f.1**

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| <b>FEMA REP:<br/>Sub-element 3.f –<br/>Implementation of<br/>Post-Plume Phase<br/>Relocation, Reentry,<br/>and Return Decisions</b> | <b>Criterion 3.f.1:</b> Decisions regarding controlled reentry, relocation, and return of individuals during the post-plume phase are coordinated with appropriate organizations and implemented. <i>(NUREG-0654/FEMA-REP-1, E.7; J.10.j; J.12; K.5.b; M.1,3)</i>  |
| <b>CORE CAPABILITY:<br/>Environmental<br/>Response/Health and<br/>Safety</b>  | <p><b>Objective 1:</b> Demonstrate the ability to make decisions for relocating members of the evacuated public who lived in areas that now have residual radiation levels in excess of the PAGs</p> <p><b>Objective 2:</b> Demonstrate the ability to identify members of the public who were not initially instructed to evacuate and are located in an area where actual or projected doses are in excess of relocation PAGs.</p> <p><b>Objective 3:</b> Demonstrate the ability to develop a strategy for authorized reentry of individuals into the restricted zone(s) based on established decisions and anticipate what policies may need to be modified in order to implement this strategy.</p> <p><b>Objective 4:</b> Demonstrate the capability to implement policies concerning return of members of the public to areas that were</p> |

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|   | evacuated during the plume phase, including the cancellation and/or relaxation of associated restrictive measures.  |
| <b>CORE CAPABILITY:<br/>Situational<br/>Assessment</b>  | <b>Objective 1:</b> Determine and identify areas of restriction (relocation, reentry, and return) based on factors such as the mix of radionuclides in deposited materials, calculated exposure rates versus the PAGs, and analysis of vegetation and soil field samples.   |
| <b>CORE CAPABILITY:<br/>Economic Recovery</b>   | <b>Objective 1:</b> Identify services and facilities that require restoration within a few days and identify the procedures and resources for their restoration.  |
| <b>CORE CAPABILITY:<br/>Health and Social<br/>Services</b>  | <b>Objective 1:</b> Identify health and social services and resources needed to assist the impacted population.   |
| <b>CORE CAPABILITY:<br/>Housing</b>   | <p><b>Objective 1:</b> Demonstrate the capability to provide for short- or long-term relocation of evacuees who lived in an area(s) that has residual radiation levels above the (first-, second-, and 50-year PAGs).</p> <p><b>Objective 2:</b> Demonstrate the capability to communicate instructions to the public regarding relocation decisions and intermediate-term housing for relocated persons.</p> |
| <p><b><u>EXTENT OF PLAY – DAY 1:</u></b></p> <ul style="list-style-type: none"> <li>This criterion will not be evaluated on day 1. FEMA will observe related activities that are demonstrated during the Advanced Party Meeting.</li> </ul> <p><b><u>EXTENT OF PLAY – DAY 2:</u></b></p> <ul style="list-style-type: none"> <li>Moderated discussions that take place during the Ingestion Tabletop will include questions to drive certain demonstration requirements of this evaluation criteria. FEMA evaluators will be allowed during discussions and at the end of the Tabletop to ask follow-up questions if needed.</li> </ul> <p><b><u>Evaluated Organizations and Locations:</u></b></p> <ul style="list-style-type: none"> <li>DPS - TDEM <ul style="list-style-type: none"> <li>Table Top Exercise <ul style="list-style-type: none"> <li>SOC Representative</li> </ul> </li> </ul> </li> <li>DSHS - RCP <ul style="list-style-type: none"> <li>Table Top Exercise <ul style="list-style-type: none"> <li>STP EOF Representatives</li> </ul> </li> </ul> </li> <li>Matagorda County <ul style="list-style-type: none"> <li>Table Top Exercise <ul style="list-style-type: none"> <li>MCEOC Representatives</li> </ul> </li> </ul> </li> </ul> |   |

| <b>FEMA REP ASSESSMENT AREA 4:<br/>FIELD MEASUREMENT AND ANALYSIS</b>   |  |
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| <b>FEMA REP EVALUATION CRITERIA 4.a.2</b>   |  |
| <b>FEMA REP:<br/>Sub-element 4.a–<br/>Plume Phase Field<br/>Measurements and<br/>Analysis</b>   | <b>Criterion 4.a.2:</b> Field teams (2 or more) are managed to obtain sufficient information to help characterize the release and to control radiation exposure. (NUREG-0654, C.1; H.12; I.7,8,11; J.10.a)   |
| <b>CORE CAPABILITY:<br/>Situational<br/>Assessment</b>  | <p><b>Objective 1:</b> Demonstrate a field team briefing that includes the predicted plume location and direction, plume travel speed, and exposure control procedures prior to deployment.</p> <p><b>Objective 2:</b> Demonstrate the ability for teams to take measurements at such locations and times as necessary to provide sufficient information to characterize the plume and its impacts.</p>                        |
| <p><b><u>EXTENT OF PLAY – DAY 1:</u></b></p> <ul style="list-style-type: none"> <li>Four (4) to Six (6) Field Monitoring Teams may be deployed for training purposes. Only (2) teams will be evaluated. Drill evaluators may be required to travel in separate vehicles due to space restrictions in DPS vehicles.</li> <li>DOE RAP Teams will deploy with RCP Field Teams and will not be evaluated by FEMA.</li> <li>Field monitoring activities may be out-of-sequence demonstrations, as agreed upon by the controller and evaluator at the time of the exercise.</li> </ul> <p><u>Evaluated Organizations and Locations:</u></p> <ul style="list-style-type: none"> <li>DSHS - RCP               <ul style="list-style-type: none"> <li>- STP EOF</li> <li>- FMTs</li> </ul> </li> </ul> <p><b><u>EXTENT OF PLAY – DAY 2:</u></b></p> <ul style="list-style-type: none"> <li>This criterion will not be evaluated on day 2.</li> </ul> |  |
| <b>FEMA REP EVALUATION CRITERIA 4.a.3</b>   |  |
| <b>FEMA REP:<br/>Sub-element 4.a–<br/>Plume Phase Field<br/>Measurements and<br/>Analysis</b>   | <b>Criterion 4.a.3:</b> Ambient radiation measurements are made and recorded at appropriate locations, and radioiodine and particulate samples are collected. Teams should move to an appropriate low background location to determine whether any significant (as specified in the plan and/or procedures) amount of radioactivity has been collected on the sample media. (NUREG-0654/FEMA-REP-1, C.1; H.12; I.8, 9; J.10.a) |
| <b>CORE CAPABILITY:<br/>Environmental<br/>Response/ Health<br/>and Safety</b>   | <b>Objective 1:</b> Demonstrate the capability to make and report measurements of ambient radiation to the field team coordinator, dose assessment team, or other appropriate authority.   |

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|   | <p><b>Objective 2:</b> Demonstrate the capability to obtain an air sample for measurement of airborne radioiodine and particulates, and move to an appropriate low background location to perform a field analysis in accordance to DSHS RCP FMT procedure.</p>   |
| <p><b><u>EXTENT OF PLAY – DAY 1:</u></b></p> <ul style="list-style-type: none"> <li>• Four (4) to Six (6) Field Monitoring Teams may be deployed for training purposes. Only (2) teams will be evaluated. Drill evaluators may be required to travel in separate vehicles due to space restrictions in DPS vehicles.</li> <li>• DOE RAP Teams will deploy with RCP Field Teams.</li> <li>• Activated charcoal filters will be used in lieu of Silver Zeolite filters for exercise purposes.</li> <li>• Each graded field team will at least once demonstrate proficiency in the use of PPE (gloves &amp; booties) as required by procedure. Due to heat considerations, suits will not be worn in the field.</li> <li>• The ability to don and remove anti-contamination clothing will be demonstrated by 1 field team member at an agreed upon time and location prior to or following the exercise.</li> <li>• Correction on the spot requested. *</li> </ul> <p><u>Evaluated Organizations and Locations:</u></p> <ul style="list-style-type: none"> <li>• DSHS - RCP</li> <li>- FMTs</li> </ul> <p><b><u>EXTENT OF PLAY – DAY 2:</u></b></p> <ul style="list-style-type: none"> <li>• This criterion will not be evaluated on day 2.</li> </ul> |   |
| <p><b>FEMA REP EVALUATION CRITERIA 4.b.1</b></p>  |   |
| <p><b>FEMA REP:<br/>Sub-element 4.b–<br/>Post-Plume Phase<br/>Field Measurements<br/>and Sampling</b></p>   | <p><b>Criterion 4.b.1:</b> Field teams (2 or more) demonstrate the capability to make appropriate measurements and to collect appropriate samples (e.g., food crops, milk, water, vegetation, and soil) to support adequate assessments and protective action decision-making. <i>(NUREG-0654, C.1; I.8; J.11)</i></p>  |
| <p><b>CORE CAPABILITY:<br/>Environmental<br/>Response/ Health<br/>and Safety</b></p>  | <p><b>Objective 1:</b> Demonstrate the capability to make and report post-plume measurements of ambient radiation to the field team coordinator, dose assessment team, or other appropriate authority.</p> <p><b>Objective 2:</b> Demonstrate the capability to obtain appropriate ingestion phase samples (e.g., soil, water, and vegetation) for laboratory analysis in accordance to DSHS RCP FMT procedure.</p> |
| <p><b><u>EXTENT OF PLAY – DAY 1:</u></b></p> <ul style="list-style-type: none"> <li>• This criterion will not be evaluated on day 1, unless FEMA evaluates related activities that are demonstrated during the Advanced Party Meeting.</li> </ul> <p><b><u>EXTENT OF PLAY – DAY 2:</u></b></p> <ul style="list-style-type: none"> <li>• This criterion may be performed out of sequence at an agreed upon time and location.</li> </ul>   |   |

- Four (4) to Six (6) Field Monitoring Teams may be deployed for training purposes. Only (2) teams will be evaluated. Drill evaluators may be required to travel in separate vehicles due to space restrictions in DPS vehicles.
- DOE RAP Teams will deploy with RCP Field Teams.
- Determining the level of PPE will be at the discretion of the FMT Controller and FEMA Evaluator. Gloves may be worn during field deployment and handling of samples to demonstrate contamination control measures in accordance to procedure.
- Donning and doffing of anti-contamination clothing will not be demonstrated on Day 2.
- Correction on the spot requested. \*

Evaluated Organizations and Locations:

- DSHS - RCP
  - DSHS Staging Area
    - FMTs

**FEMA REP EVALUATION CRITERIA 4.c.1**

**FEMA REP:  
Sub-element 4.c-  
Laboratory  
Operations**

**Criterion 4.c.1:** The laboratory is capable of performing required radiological analyses to support protective action decisions. (*NUREG-0654, C.1.3; J.11*)

**CORE CAPABILITY:  
Environmental  
Response/ Health  
and Safety**

**Objective 1:** Demonstrate the capability to follow appropriate procedures for receiving and preparing samples, including logging information, preventing contamination of sample preparation and laboratory areas, preventing buildup of background radiation due to stored samples, preventing cross-contamination of samples, preserving samples that may spoil, and keeping track of sample identity.

**LOCATIONS:**

- DSHS Mobile Lab
- DSHS RCP Sample Prep Team

**EXTENT OF PLAY – DAY 1:**

- This criterion may be performed out of sequence at an agreed upon time and location.
- EPA Mobile Lab will be co-located with the DSHS Mobile Lab. Receipt and assignment of samples will be jointly coordinated amongst DSHS and EPA Sample Prep Teams. (EPA is not Evaluated)
- Correction on the spot requested. \*

Evaluated Organizations and Locations:

- DSHS - RCP
  - Mobile Lab
  - Sample Prep Team



**EXTENT OF PLAY – DAY 2:**

- Evaluation of the DSHS Austin Lab ingestion phase sample capabilities and analytical processes can be conducted via interview of mobile lab staff.

**Evaluated Organizations and Locations:**

- DSHS - RCP
  - DSHS Staging Area
    - Mobile Lab
    - Sample Prep Team

**FEMA REP ASSESSMENT AREA 5:  
EMERGENCY NOTIFICATION AND PUBLIC INFORMATION**

**FEMA REP EVALUATION CRITERIA 5.a.1**

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| <b>FEMA REP:<br/>Sub-element 5.a–<br/>Activation of the<br/>Prompt Alert and<br/>Notification System</b> | <b>Criterion 5.a.1:</b> Activities associated with primary alerting and notification of the public are completed in a timely manner following the initial decision by authorized off-site emergency officials to notify the public of an emergency situation. The initial instructional message to the public must include as a minimum the elements required by current REP guidance. ( <i>NUREG-0654/FEMA-REP-1, E.5, 6, 7</i> ) |
| <b>CORE CAPABILITY:<br/>Public Information<br/>and Warning</b>   | <b>Objective 1:</b> Demonstrate the 24-hour capability to provide an alert signal followed by an initial instructional message to populated areas (permanent resident and transient) throughout the 10-mile in a timely manner.  |

**EXTENT OF PLAY – DAY 1:**

- Siren activation will be simulated by the Matagorda County Sheriff's Office Dispatcher; and alert radio activation will be simulated by the National Weather Service (NWS) in Dickinson.
- Simulation of the siren and alert radio activation will be in real time sequence with the transmission of the EAS message. The sirens will be sounded at the appropriate time in the exercise in accordance with the decision and the EAS message will follow the siren sounding.
- Emergency Alert System (EAS) message content will be determined by the Emergency Management Director and communicated to the EAS source by the EOC Administrative Assistant; however, broadcasts will be simulated.

**Evaluated Organizations and Locations:**

- Matagorda County
  - NOAA, National Weather Service (NWS)
  - MCEOC

**EXTENT OF PLAY – DAY 2:**

- EAS messages will be written by Matagorda County as needed to demonstrate day 2 evaluation objectives during the table top. National Weather Service will not be participating. Broadcast will be simulated.

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| <u>Evaluated Organizations and Locations:</u> <ul style="list-style-type: none"> <li>• Matagorda County <ul style="list-style-type: none"> <li>- Table Top Exercise <ul style="list-style-type: none"> <li>o MCEOC Representatives</li> </ul> </li> </ul> </li> </ul>   |   |
| <b>FEMA REP EVALUATION CRITERIA 5.b.1</b>   |   |
| <b>FEMA REP:</b><br><b>Sub-element 5.b–</b><br><b>Subsequent</b><br><b>Emergency</b><br><b>Information and</b><br><b>Instructions for the</b><br><b>Public and Media</b>  | <b>Criterion 5.b.1:</b> OROs provide accurate subsequent emergency information and instructions to the public and the news media in a timely manner. <i>(NUREG-0654/FEMA-REP-1, E.5, 7; G.3.a; G.4.a, c)</i>  |
| <b>CORE CAPABILITY:</b><br><b>Operational</b><br><b>Coordination</b>  | <b>Objective 1:</b> Demonstrate coordination to ensure that emergency information and instructions are consistent with PADs made by appropriate officials and contains all necessary instructions.  |
| <b>CORE CAPABILITY:</b><br><b>Public Information</b><br><b>and Warning</b>  | <b>Objective 1:</b> Demonstrate the ability to provide emergency information and instructions to the public and media in a timely manner following the initial alert and notification.<br><br><b>Objective 2:</b> Demonstrate the ability to provide ingestion pathway information to pre-determined individuals and businesses in accordance with plans and procedures.<br><br><b>Objective 3:</b> Demonstrate the ability to provide media information kits to the media.<br><br><b>Objective 4:</b> Demonstrate that an effective system is in place for dealing with calls received via the public inquiry hotline. |
| <b><u>EXTENT OF PLAY – DAY 1:</u></b> <ul style="list-style-type: none"> <li>• Actual Information will not be provided to the public and/or the media not participating in the exercise.</li> </ul> <u>Evaluated Organizations and Locations:</u> <ul style="list-style-type: none"> <li>• Matagorda County <ul style="list-style-type: none"> <li>- MCEOC</li> <li>- JIC</li> </ul> </li> </ul> <b><u>EXTENT OF PLAY – DAY 2:</u></b> <ul style="list-style-type: none"> <li>• Information and instructions to the public regarding relocation, reentry and return decisions and to agricultural communities will be limited to press releases. Mock media/press briefings will not be conducted.</li> </ul> |   |

- No information will be shared with media, agricultural businesses, members of the general public, or any non-exercise players.

Evaluated Organizations and Locations:

- DSHS - RCP
  - Table Top Exercise
    - STP EOF Representative
    - JIC Representative
- Matagorda County
  - Table Top Exercise
    - MCEOC Representative
    - JIC Representative

**GENERAL EXTENT OF PLAY AGREEMENTS**

- With regard to last minute additions or changes to any previously approved Extent-of-Play, all suggested changes, including decisions due to inclement weather, must be forwarded to the RAC Chair for approval.
- As a statement of fact, no ORO will deliberately deviate from its plans and procedures with the intent of avoiding responsibility.
- Federal agencies will not be evaluated, however, products and equipment turned over to DSHS throughout the exercise will be evaluated as DSHS RCP issued equipment and supporting data.
- All evaluated locations will be simulated for Day 2, where players will be evaluated while participating at either the Table Top location or the DSHS Staging Area.
- The exercise may be suspended or terminated due to a real emergency situation.
- \*Correction-on-the-spot is defined in the FEMA REP Program Manual on page 171.

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