

**ANNEX 4-Basic Plan
EXERCISES AND DRILLS
APPENDIX 2**

I. INTRODUCTION

- A. Exercises and Drills are conducted, based on simulated incidents at nuclear power plants to test and evaluate State and local offsite radiological emergency response capabilities and to develop and maintain skills of emergency responders.
- B. SCEMD coordinates nuclear power plant (NPP) offsite exercises and drills under the provisions of NUREG-0654/FEMA-REP-1, Rev. 1, and the FEMA Radiological Emergency Preparedness (REP) Program Manual.

II. PURPOSE

The purpose of this plan is to establish procedures for the periodic testing of state and county radiological emergency response plans and evaluating offsite response organizations capabilities to respond to NPP incidents.

III. CONCEPT OF OPERATIONS

A. Exercise Frequency

- 1. The state will exercise at least biennially with each NPP to demonstrate all emergency phase capabilities, and to verify that state and county emergency plans and procedures are adequate to protect the health and safety of the public living within 10 miles of the NPPs outlined in this plan.
 - a. The state will conduct a full-participation exercise (with field teams) with one NPP annually.
 - b. The state will conduct a partial-participation exercise (without field teams) during all other NPP exercises.
- 2. The 10-mile EPZ “Risk” counties will conduct a full-participation exercise at least biennially with their respective NPP.
- 3. Host-only counties will demonstrate reception center and shelter operations biennially with their respective NPP.
- 4. At least once every eight years, the state will conduct a full-participation exercise to include required scenario variations. These include a post-plume phase ingestion pathway exercise, hostile-action based (HAB) exercise, and a rapid escalation exercise, as defined in the FEMA REP Program Manual.
- 5. Licensees are required to conduct a no radiological release or unplanned minimal radiological release exercise once per 8-year cycle. OROs are encouraged, but not required, to participate in this exercise with the licensee. If OROs elect to participate in a joint exercise with no or minimal release, part of

the planning for the exercise will include identifying Demonstration Criteria that will not be evaluated during the exercise and determining appropriate alternative demonstration and evaluation venues so that OROs can meet their biennial evaluation requirements.

B. Exercise Preparation

1. SCEMD will coordinate REP Exercise Evacuation Area selection with NPPs, DHEC and affected counties based on guidance contained in the FEMA (REP) Program Manual. Exercise Evaluation Areas will be submitted to DHS FEMA Region IV for approval no later than 90 days prior to the scheduled exercise.
2. SCEMD will coordinate an Extent of Play Agreement (EOPA) with DHEC and affected counties based on guidance contained in the FEMA REP Program Manual. The EOPA will be submitted to DHS FEMA Region IV for approval no later than 75 days prior to the scheduled exercise.
3. The NPP will provide SCEMD a scenario and radiological data adequate to support the EOPA no later than 75 days prior to the exercise. The scenario and radiological data will be submitted to DHS FEMA Region IV for approval no later than 60 days prior to the exercise.

C. Drills

Drills are small-scale exercises, which test a single emergency response function, generally in a supervised field environment. Drills focus on a single or limited portion of the overall response system.

1. Communication drills to test the overall communication and warning systems between each NPP, the SEOC and risk county EOCs will be tested quarterly or at more frequent intervals as deemed necessary. All communication drills will include the aspect of message comprehension.
2. DHS FEMA Region IV will evaluate Medical Services (MS) Drills involving a simulated contaminated injured individual requiring response by local health service agencies. These drills will be conducted annually with either the primary or backup hospital.
3. Radiological Monitoring Drills
 - a. ESF 10 will participate in radiological monitoring drills annually. Drills will focus on the aspects of collection and analysis of all sample media, and provisions for communications and record keeping.
 - b. Risk and host counties will participate in radiological monitoring drills annually and in conjunction with each DHS FEMA evaluated exercise. County radiological monitoring drills will focus on the aspects of monitoring and/or decontaminating emergency workers, emergency worker equipment, evacuees and vehicles.