

Radiological Emergency Preparedness (REP) Assessment Areas, Sub-elements, and Demonstration Criteria

Demonstration Criteria: REP exercises use the REP Assessment Areas, Sub-elements, and Demonstration Criteria to observe and evaluate the ability of the OROs to meet the appropriate Planning Standards. Each Sub-element identifies a major facet of its Assessment Area. Each Demonstration Criterion sets the standard for an ORO's ability to perform a specific emergency function under the Sub-element (e.g., communicating among response organizations; making dose assessments; alerting and notifying the public). Thus, the REP Assessment Areas, Sub-elements, and Demonstration Criteria provide evaluation parameters much like the use of core capabilities within an HSEEP exercise. FEMA has identified the core capabilities that correlate to the REP Demonstration Criteria (see Part IV, Section H. Integration of REP Demonstration Criteria and Core Capabilities) so that HSEEP exercise documents may be utilized during REP exercises.

Each of the Assessment Areas contains specific Sub-elements and Demonstration Criteria.

1. Emergency Operations Management

- Sub-element 1.a – Mobilization
 - Criterion 1.a.1
- Sub-element 1.b – Facilities
 - Criterion 1.b.1
- Sub-element 1.c – Direction and Control
 - Criterion 1.c.1
- Sub-element 1.d – Communications Equipment
 - Criterion 1.d.1
- Sub-element 1.e – Equipment and Supplies to Support Operations
 - Criterion 1.e.1

2. Protective Action Decision-Making

- Sub-element 2.a – Emergency Worker Exposure Control
 - Criterion 2.a.1
- Sub-element 2.b – Dose Assessment, PARs and PADs for the Emergency Event
 - Criterion 2.b.1
 - Criterion 2.b.2
- Sub-element 2.c – PADs Consideration for the Protection of Persons with Disabilities and Access/Functional Needs
 - Criterion 2.c.1
- Sub-element 2.d – Radiological Assessment and Decision-Making for the Ingestion Exposure Pathway
 - Criterion 2.d.1
- Sub-element 2.e – Radiological Assessment and Decision-Making Concerning Post-Plume Phase Relocation, Reentry, and Return
 - Criterion 2.e.1

3. Protective Action Implementation

- Sub-element 3.a – Implementation of emergency worker Exposure Control
 - Criterion 3.a.1
- Sub-element 3.b – Implementation of KI Decision for Institutionalized Individuals and the Public

- Criterion 3.b.1
- Sub-element 3.c – Implementation of Protective Actions for Persons with Disabilities and Access/Functional Needs
- Criterion 3.c.1
- Criterion 3.c.2
- Sub-element 3.d – Implementation of Traffic and Access Control
- Criterion 3.d.1
- Criterion 3.d.2
- Sub-element 3.e – Implementation of Ingestion Pathway Decisions
- Criterion 3.e.1
- Criterion 3.e.2
- Sub-element 3.f – Implementation of Post-Plume Phase Relocation, Reentry, and Return Decisions
- Criterion 3.f.1

4. Field Measurements and Analyses

- Sub-element 4.a – Plume Phase Field Measurements and Analyses
- Criterion 4.a.1
- Criterion 4.a.2
- Criterion 4.a.3
- Sub-element 4.b – Post-Plume Phase Field Measurements and Sampling
- Criterion 4.b.1
- Sub-element 4.c – Laboratory Operations
- Criterion 4.c.1

5. Emergency Notification and Public Information

- Sub-element 5.a – Activation of the Prompt Alert and Notification System
- Criterion 5.a.1
- Criterion 5.a.2
- Criterion 5.a.3
- Criterion 5.a.4
- Sub-element 5.b – Emergency Information and Instructions for the Public and Media
- Criterion 5.b.1

6. Support Operations/Facilities

- Sub-element 6.a – Monitoring, Decontamination, and Registration of Evacuees
- Criterion 6.a.1
- Sub-element 6.b – Monitoring and Decontamination of Emergency Workers and their Equipment and Vehicles
- Criterion 6.b.1
- Sub-element 6.c – Temporary Care of Evacuees
- Criterion 6.c.1
- Sub-element 6.d – Transportation and Treatment of Contaminated Injured Individuals
- Criterion 6.d.1

For additional information pertaining to the 15 Planning Standards, please reference the [REP Program Manual](#).