

# DRAFT INTERIM USE REP EXERCISE PREPARATION GUIDE

## REP Exercise Preparation Guide for Evaluators and Team Leaders

### 1. Purpose and Organization

The *REP Exercise Preparation Guide* is to assist evaluators, including Team Leaders, to prepare for a radiological emergency response exercise. The guide is to be used during pre-exercise preparations, **not** during the exercise itself. The REP Exercise Preparation Guide (EPG) is in three parts: (1) General Guidance for Evaluators, (2) General Guidance for Team Leaders, and (3) Guidance for preparing to evaluate specific Evaluation Areas and Criteria. **None** of these guides are to be completed and submitted to FEMA as part of the documentation of an evaluation assignment. There is also an appendix with a chart showing a “crosswalk” between the old evaluation methodology (Objectives) to the new Methodology (Evaluation Areas).

### 2. General Guidance for Evaluators

The General Guidance for Evaluators on the following pages includes the basic tasks and responsibilities for all evaluators starting from the time they receive their evaluator packet until the exercise has ended and they have been released. Therefore, General Guidance for Evaluators should be included in all evaluator packets. FEMA Regional Offices may add to or modify the document to accommodate regional or exercise-specific variations in tasks and responsibilities.

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**When you receive your evaluator packet:**

1. Review the contents of the packet and the transmittal letter. (Call the designated point of contact if you have any questions.)
2. Check your assignment(s). Does your expertise fit this assignment? Does this assignment require your coordination with an evaluator in another location?
3. Inform point-of-contact of any potential conflict of interest you may have.
4. Make travel arrangements and follow instruction given in the pre-exercise letter or memorandum regarding lodging. (NOTE: Return time may depend on exercise outcome).
5. Using the Pre-Exercise Evaluator Preparation Guide for each of your assigned Evaluation Criteria, review the plan, procedures, and extent of play and prior issues. Are the activities covered by the criteria demonstrated entirely within the facility that you are evaluating? If not, what activities are accomplished at your evaluation location?
6. Develop a list of actions expected at your location for your assignment(s); e.g., by Emergency Classification Level (ECL).
7. Identify questions for clarification during the pre-exercise meeting.
8. Record related work hours on appropriate form (if applicable).
9. Bring appropriate clothing for the season and assignment. For most exercise locations this means appropriate business attire.
10. Bring a laptop computer and printer, if available. Work products should be provided in Word 2000 format.

**Pre-Exercise Tasks:**

1. Attend pre-exercise meeting(s) and ensure that you have completed tasks 1-8 above (if not already completed).
2. Attend team meeting(s); clarify extent of your assignment(s).
3. Obtain any change-pages to the evaluator packet.
4. Ask exercise questions related to the extent of play while State, county and utility representatives are present at the pre-exercise meeting, if appropriate.

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**Pre-Exercise Tasks (cont'd):**

5. Obtain answers to any outstanding questions you may have during your team meeting(s), especially any that you have concerning extent of play requirements and demonstration issues.
6. Know approximate Emergency Classification Level times *per* the scenario (provided in the evaluator packet and/or in the pre-exercise meetings).
7. Know responsibilities for gathering player-produced documents (logs, sign-in rosters, etc.)
8. Establish method of reporting time, e.g., 24-hour clock, and synchronize watches.
9. Confirm time to be at evaluation location.
10. Obtain contact number(s) for emergencies, media inquiries, significant exercise issues, etc. (Usually the Regional Assistance Committee (RAC) Chair or designee.)
11. Review exercise policy on immediate correction of potential issues during exercise play. Determine the RAC Chair's instruction on re-demonstration, i.e., does the RAC Chair need to approve a re-demonstration or may the Team Leader or Evaluator make that determination?
12. Review regional policy on preliminary direct feedback to exercise participants.
13. Confirm information on post-exercise meetings to provide to exercise participants.
14. Locate evaluation site and determine travel time.
15. Understand regional expectations regarding narratives and issues.
16. Understand the review process and deadlines for work products.

**During the exercise:**

1. Wear appropriate business attire (exceptions to business attire will be discussed by regional personnel). Wear identification badges if instructed to do so at the pre-exercise briefing.
2. Arrive at your assigned location at least 15-30 minutes prior to any scheduled activity.
3. Upon arrival, introduce yourself to the controller and key participants.
4. Prior to the start of exercise play, the team leader or other designated individual should arrange to receive copies of all logs, messages (including Emergency Alert System (EAS) messages), sign-in rosters, notification forms and other materials developed during the exercise. Do not leave your location without these, unless instructed otherwise!

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**During the exercise (cont'd):**

5. While focusing on your particular assigned criteria, be sure to also observe and record as much of the pertinent activity as possible outside of your primary area of responsibility.
6. Develop a detailed time record for observed events.
7. Remain as unobtrusive as possible:
  - Remember that people present at your location are aware that you are evaluating them; they want to do a good job; they may be nervous and apprehensive; try to put them at ease and establish a good rapport from the outset.
  - If you have questions about exercise play, refer to the exercise controller at your location or other designated contact.
  - Refer questions from media to the designated contact.
8. Never reveal the scenario to the players.
9. Remember that your job during the exercise is to observe and document, not to participate in, or interfere with exercise play:
  - Do not give instructions or orders during the exercise;
  - Do ask questions as needed to complete your evaluation;
  - Be sure to ask questions at the appropriate times so that you are not interrupting the staff or prompting them to take actions they may have forgotten;
  - Remember an actual emergency always takes precedence over exercise activities.
10. Avoid use of ORO communications equipment that could interfere with the players.
11. REMEMBER: Evaluators have no authority to terminate the exercise.
12. As soon as the exercise is terminated:
  - Meet with your team and develop initial positive and negative observations;
  - Present preliminary direct feedback to exercise participants, including: (1) Thank the participants for their part in the exercise, (2) Provide positive comments to the participants, and (3) Provide recommendations for improvement based on your experience and describe the problems that you saw. Remember: Do not classify these problems with the terms “Deficiency,” “Area Requiring Corrective Action (ARCA),” or “Planning Issue.”
  - Provide participants with the time and place of post-exercise meetings.

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**After the Exercise:**

1. Attend post-exercise evaluator debriefing meetings, as required.
  - Be prepared to provide input to the exercise timeline, if applicable.
  - Be prepared to discuss the problems you identified with the exercise play at your location, if applicable.
  - Discuss your evaluation with the other evaluators previously identified to develop the complete picture of the play.
2. Write Reports (Narratives and Issues) and complete within the time frame specified.
  - Be SURE of the facts you record.
  - Write legibly on all handwritten items such as timelines, timesheets, etc. (Please bring a laptop to type reports, if possible. Work products should be provided in Word 2000 format.
  - The narrative summary should be a logical discussion of events that support your recommendation that the criterion was or was not adequately demonstrated. This discussion must include who, what, when, where, why and how, as applicable to the criterion you are evaluating. All issues should be described in the narrative and in a detailed, “stand-alone” write-up of the issue.
  - Use exact names of facilities, organizations and titles of participants (not their names) and compare with those specified in the plan. Verify all spellings, use only approved and accurate acronyms, and define them in your text.
  - Do not draw conclusions without supporting facts, for example, state “No evidence of annual calibration;” not “instruments were not calibrated.”
  - PREVIOUS ARCAs: State whether previous ARCAs have been resolved and the corrective action demonstrated. A detailed discussion of the actions accomplished to resolve the ARCA must be provided.
  - UNRESOLVED ARCA: If the ARCA has not been resolved, indicate this as an “Unresolved ARCA.” Describe in detail the reason for this conclusion.
  - NEW ISSUE: If there is a new issue, the discussion must address the following elements: condition, possible cause, reference (include specific references; e.g., NUREG-0654, plans or procedures), effect or potential effect and recommendation.
  - The review process will be discussed during the pre-exercise briefing.

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**After the Exercise (cont'd):**

- Prior to release from the exercise, submit your completed evaluation modules and the following materials to your Team Leader:
  1. Evaluator logs and timeline;
  2. All copies of player logs, messages, etc., collected at your location (if directed to do so by your Team Leader);
  3. Your evaluator binder;
  4. Any other material supporting issues you have identified;
  5. Time sheets with regular and overtime, as specified by the Region; and
  6. Other materials required by the Region.

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### **3. General Guidance for Team Leaders**

The General Guidance for Team Leaders on the following pages includes the basic tasks and responsibilities for the position starting from the time the Team Leader receives the evaluator packet until the exercise has ended and they have been released. Therefore, General Guidance for Team Leaders should be provided in the evaluator packets for all Team Leaders. It is anticipated that the FEMA Regional Offices will add to or modify the document to accommodate regional- or exercise-specific variations in tasks and responsibilities.

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## GENERAL GUIDANCE FOR TEAM LEADERS

**Team Leaders have all the responsibilities listed for evaluators. In addition, the following tasks are to be performed. Any Regional differences or preferences should be discussed during the initial evaluator's briefing.**

1. Attend all meetings as assigned.
2. Arrange meetings with team prior to and after the exercise.
3. Arrange pre-exercise site visit, if applicable.
4. Using the REP -Exercise Preparation Guide for each Evaluation Criterion assigned to the team, review with the team members, the plan, procedures, and extent of play and prior issues provided.
5. Ensure that all evaluation criteria and prior issues are assigned to team members.
6. Resolve team members' questions.
7. Oversee immediate correction of issues (re-demonstration).
8. Collect potential exercise issues from team members.
9. Review team members' evaluations of outstanding previous issues.
10. Consolidate timeline information for the team, if applicable.
11. Obtain talking points from team members and prepare and present post-exercise presentations, if applicable.
12. Provide input on issue classification and attend meetings as requested by the FEMA RAC Chair.
13. Provide guidance and support to team members.
14. Facilitate the observation of critical activities by team members.
15. Track and monitor the timeliness of team member's narrative write-up submissions.
16. Coordinate:
  - Collection of documents,
  - Post-exercise debriefing, and
  - With other Team Leaders on common/related issues or evaluation areas.
17. Provide input on performance of evaluators.

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### 4. REP Exercise Preparation Guide for the Evaluation Criteria

The REP Exercise Preparation Guide for the Evaluation Criteria contained in this section is intended for use by evaluators in their pre-exercise preparations. Included are quick-reference lists of the key points found in the “Intent” section of each criterion, in order to guide evaluators in their review of the offsite response organization’s (OROs) plan and procedures and the extent of play agreement provided by the FEMA Regional Office. Reminders of what to look for during an exercise are also included in the guide.

All evaluators are encouraged to use the REP Exercise Preparation Guide for the Evaluation Criteria. The guide is **not** intended for use during the actual evaluation of drills and exercises and is **not** to be submitted to FEMA.

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**EVALUATION AREA 1 - EMERGENCY OPERATIONS MANAGEMENT**

**SUB-ELEMENT 1.a - Mobilization**

**Criterion 1.a.1 – OROs use effective procedures to alert, notify, and mobilize emergency personnel and activate facilities in a timely manner.**

According to the ORO's plan/procedures and the extent of play agreement:

- Who notifies the ORO of the situation/emergency classification level (ECL)?
- Will the notifications be made in the same manner if the ECL changes?
- What method of notification to the facility should be used for each ECL notification?
- Is verification of ECL changes required?
- As the ECL changes, what staff and other notifications are required? By what means?
- Are key positions within the EOC/facility identified in the ORO's plan/procedure? If so, what are they? Which ones require 24-hour staffing?
- If applicable, what is the criteria for the Emergency Operations Center (EOC)/facility to be declared activated and, subsequently, operational?
- Does the extent of play agreement allow for pre-positioning of any participants?
- Does the extent of play agreement allow for any simulation?
- Are any out of sequence demonstrations required? If so, what, when and where?

During the exercise, in addition to evaluating activities related to the items listed above, be sure to:

- Note any pre-positioned staff at your location not in accordance with the extent of play.
- Note times (e.g., 24-hour clock) of all key events applicable at your location, including when:
  - Notifications are received from the Utility/State, and at what ECL level,
  - Response staff are notified,
  - Response staff arrive, and
  - The facility is declared operational.

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- Obtain copies of:
  - Sign-in log,
  - All notifications received.
  - Player logs

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**SUB-ELEMENT 1.b - Facilities**

**Criterion 1.b.1 – Facilities are sufficient to support emergency response.**

(Note: this criterion is evaluated only if the facilities are new or have substantial changes in structure or mission; however, all facilities will be evaluated once under the new criteria to form a baseline.)

According to the ORO's plan/procedures and the extent of play agreement:

- What should be available to support emergency operations conducted from the facility?
  - Space
  - Furnishings
  - Lighting
  - Restrooms
  - Ventilation, and
  - Back up power and/or alternate facility
- Is there a diagram or floor plan of the facility in the plan/procedures?

During the exercise, in addition to evaluating activities related to the items listed above, be sure to:

- Check that the facility is set up (as shown in the floor plan) and operated according to the ORO's plan/procedure, unless otherwise indicated in the extent of play agreement. If not, did it cause any adverse consequences? Are changes to the plan or procedures recommended as a result?

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**SUB-ELEMENT 1.c – Direction and Control**

**Criterion 1.c.1 – 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.**

According to the ORO's plan/procedures and the extent of play agreement:

- Who is in charge of the emergency response at this location?
- Are staff briefings or other means of providing information and instructions to staff specified? At what frequency?
- Who is responsible for coordinating response activities with other organizations?
- Who is authorized to make protective action decisions (PADs)?
- Who approves EAS or other notification method message content and authorizes the release of the message(s)
- Are plan/procedures available for all staff?
- Are message logs maintained, messages numbered, and distributed to designated staff?

During the exercise, in addition to evaluating activities related to the items listed above, be sure to:

- Note if the participants follow the plan and procedures related to the items listed above, unless otherwise indicated in the extent of play agreement. If not, were there any adverse consequences? Are changes to the plan or procedures recommended as a result?
- Note if the key personnel in leadership roles make timely decisions. Also, observe whether the decision-makers obtained input from their support staff.
- Document how key personnel in leadership roles resolve conflicts, if they arise.

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**SUB-ELEMENT 1.d – Communications Equipment**

**Criterion 1.d.1 – At least two communications 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.**

According to the ORO's plan/procedures and the extent of play agreement:

- What types of communications system(s) are available?
  - Primary?
  - Alternate or backup?
  - Dedicated Line?
- What types of communications system(s) are to be demonstrated?
- Is a communications check with other jurisdictions, field teams and/or other support organizations specified?

During the exercise, in addition to evaluating activities related to the items listed above, be sure to:

- Note any communications equipment failures. If there were failures, document them in your narrative. Did any communications failures affect exercise performance? If so, describe the issue in your write-up.
- Identify the communication system(s) available independent of commercial telephone.
- Ensure that the primary and at least one backup communication system are fully functional at the commencement of the exercise.
- Observe whether a communications check with other jurisdictions, field teams, and/or other support organizations was performed.

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**SUB-ELEMENT 1.e – Equipment and Supplies to Support Operations**

**Criterion 1.e.1 – Equipment, maps, displays, dosimetry, potassium iodide (KI), and other supplies are sufficient to support emergency operations.**

According to the ORO's plan/procedures and the extent of play agreement:

- What types of displays should be used?
- If dosimetry is to be issued at the evaluation location, what types and quantities of dosimetry should be available and where are they located before distribution? To whom would the dosimeters be returned at the end of the emergency?
- Is an administrative exposure limit specified?
- Will the available direct reading dosimeters (DRDs) allow for the reading of the exposure limit?
- Does the plan/procedure describe a dosimeter correction factor?
- What types and quantities of survey instruments should be available?
- What types and quantities of barricades and other equipment for access and traffic control should be available?

During the exercise, in addition to evaluating activities related to the items listed above, be sure to:

- Note any displays used by the ORO.
- If instructed, verify the quantities of DRDs and TLDs, and the testing/calibration dates of DRDs and survey instruments.
- If instructed, verify that field instruments have been calibrated in accordance with manufacturers' specifications or at least annually.
- If instructed, verify annual leakage checks for mR DRDs., and quarterly leakage checks for CDV-138's.
- If instructed, verify that there are sufficient quantities of KI within the expiration date for those who may need to take it. (If KI is beyond the expiration date, does the ORO have a letter from a certified private or State laboratory indicating that the supply is still potent?)
- If instructed, verify that appropriate equipment, e.g., barriers, cones, etc., is available for traffic and access control activities.

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**EVALUATION AREA 2 - PROTECTIVE ACTION DECISION-MAKING**

**SUB-ELEMENT 2.a - Emergency Worker Exposure Control**

**Criterion 2.a.1 - OROs use a decision-making process, considering relevant factors and appropriate coordination, to ensure 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.**

According to the ORO's plan/procedures and the extent of play agreement:

- Who will authorize exposure levels to emergency workers in excess of pre-authorized levels?
- What approach has been used to correct DRD readings to the correct Total Effective Dose Equivalent (TEDE) (e.g., the dosimeter correction factor)?
- Who makes the decision to authorize KI (for emergency workers, institutionalized, etc.) to be taken?

During the exercise, in addition to evaluating activities related to the items listed above, be sure to:

- Observe whether decision-makers considered projected doses and likely exposure rate patterns before dispatching workers into the Emergency Planning Zone (EPZ).
- Note whether the decision-makers considered:
  - Alternate entry and exit routes,
  - Potential changes in meteorological conditions,
  - Areas or roads to be avoided,
  - What to do in the event of equipment and vehicle failure, and
  - Previous exposure(s) of personnel.
- Note whether the decision to use KI was based on projected thyroid dose compared with the established Protective Action Guides (PAGs) for KI administration.
- Note if the KI decision-making process involved close coordination among assessment and decision-making staff.
- Document that the correct dosimeter correction factor was used.

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**SUB-ELEMENT 2.b – Radiological Assessment and Protective Action  
Recommendations and Decisions for the Plume Phase of the Emergency**

**Criterion 2.b.1 - Appropriate protective action recommendations are based on available information on plant conditions, field monitoring data, and licensee and ORO dose projections, as well as knowledge of onsite and offsite environmental conditions.**

According to the ORO's plan/procedures and the extent of play agreement:

- Who (identify by title and organization) develops Protective Action Recommendations (PARs)?
- Are PARs based on dose projections?
- Does the ORO develop or independently validate dose projections?
- Does the ORO calculate projected dose, including quantities and units that are the same as the PAGs to which they will be compared?
- Who (identify by title and organization) transmits PARs to decision-makers?

During the exercise, in addition to evaluating activities related to the items listed above, be sure to:

- Note whether PARs were developed based on, for example:
  - Information/recommendations from the licensee (plant),
  - Field monitoring data,
  - Release data, and/or
  - Meteorological data.
- Note whether differences in dose projection greater than a factor of ten were discussed with the licensee. If so, were the differences resolved and considered in the PAR?
- Observe whether changes were made to the PARs. If so, note times of the changes and document on what basis changes were made (e.g., field monitoring data, exposure rates, release data, meteorological data).
- Observe whether the plume location was plotted on a map on the basis of monitoring data received by the ORO.
- Note if the PARs were coordinated with other political jurisdictions (e.g., other affected OROs).

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**SUB-ELEMENT 2.b – Radiological Assessment and Protective Action  
Recommendations and Decisions for the Plume Phase of the Emergency**

**Criterion 2.b.2 - A decision-making process involving consideration of appropriate factors and necessary coordination is used to make protective action decisions (PAD) for the general public (including the recommendation for the use of KI, if ORO policy).**

According to the ORO's plan/procedures and the extent of play agreement:

- Who (identify by title and organization) makes Protective Action Decisions?
- Is the use of KI for the general public specified? If so, who makes this decision?
- How is the general public notified to ingest KI, if applicable?
- Do PADs need to be coordinated with other jurisdictions?

During the exercise, in addition to evaluating activities related to the items listed above, be sure to:

- Note whether initial PADs are made based on:
  - Notification from the licensee,
  - Assessment of plant conditions and/or radiological releases, or
  - PARs from the utility and ORO staff (dose assessment group).
- Note whether the subsequent PADs are made based on:
  - Subsequent dose projections,
  - Field monitoring data, or
  - Information on plant conditions.
- Evaluate the decision-maker(s) capability to change protective actions as appropriate based on new information.
- Follow the KI decision-making process. Did the decision require coordination with assessment and decision-making staff and was it based on projected thyroid dose compared with the established PAG.
- Note how KI information was provided to those who needed to take it. Evaluate message content for timeliness and clarity on KI instructions.

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**SUB-ELEMENT 2.c – Protective Action Decisions for the Protection of Special Populations**

**Criterion 2.c.1 - Protective action decisions are made, as appropriate, for special population groups.**

SPECIAL POPULATIONS include: hospitals, nursing homes, correctional facilities, schools, licensed day care centers, mobility impaired<sup>1</sup> and special needs individuals, hearing impaired individuals, and transportation dependent individuals.

According to the ORO's plan/procedures and the extent of play agreement:

- Are the special populations considered part of the general population or are protective action decisions made for any special populations only?
- Who (identify by title and organization) will make the protective action decision for special populations?
- What factors will be considered when making protective action decisions for special populations?
- What types of special needs facilities are within the affected area for your evaluation location?
- What types of special populations are in the affected area of the EPZ for your evaluation location?
- Review scenario material; identify what areas will be affected by the plume?
- What types of protective actions do the plans/procedures indicate could be decided for special populations?

During the exercise, in addition to evaluating activities related to the items listed above, be sure to:

- Note what PADs are made for special populations, including schools, e.g.:
  - Evacuation,
  - Shelter-in-Place,
  - Administration of KI.
  - Precautionary Evacuations.
- Note the time of the protective action decision (or precautionary protective action decision), its implementation, and who made it.

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<sup>1</sup> Mobility impaired are those individuals who are non-ambulatory and/or require support (e.g., crutches).

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- If there was a delay in making the decision, document what the delay was.
- Note the organization/title of the individual who makes the PADs for special populations.
- Note whether decisions for school children were based on:
  - ORO recommendation,
  - ECL at time of notification,
  - School plans,
  - Location of students, and/or
  - Time of day.
- Note the basis of the PADs for other special populations, e.g.:
  - Emergency Classification Level (ECL)
  - Weather conditions,
  - Shelter availability,
  - Availability of transportation assets
  - Availability of alternate locations for special populations,
  - Risk of evacuation vs. risk from avoided dose.

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**SUB-ELEMENT 2.d – Radiological Assessment and Decision-Making for the Ingestion Exposure Pathway**

**Criterion 2.d.1 - Radiological consequences for the ingestion pathway are assessed and appropriate protective action decisions are made based on the ORO's planning criteria.**

According to the ORO's plan/procedures and the extent of play agreement:

- Who (identify by title and organization) has the authority to make decisions in the ingestion exposure pathway?
- Are the decision makers and the dose assessment staff located in the same facility? If not, arrange with another evaluator so that both parts of the criterion can be observed (and ensure that the Team Leader is aware of the arrangement).
- What precautionary actions are considered before any analytical result is available on contamination levels in food or water? When, and on what basis are decisions made to implement precautionary actions?
- How are the boundaries of any temporary embargo zones determined, if this approach is contemplated?
- What laboratory provides testing for radionuclide concentrations in edible food or water?
- Does the dose assessment staff compare analytical results with pre-determined Derived Intervention Levels (DILs) or are dose projections made based on the analytical results? If the latter, what assumptions are made with respect to; fraction of the diet assumed to be contaminated, quantity consumed, consumption period, dose conversion factors, and decay corrections.
- Are the pre-determined DILs the same as the 1998 Food and Drug Administration (FDA) DILs? If not what are the differences?
- What projected dose or doses are used to decide if protective actions are warranted? If other than the FDA PAGs (DILs as a surrogate) are used, what rationale is given for other decision criteria?
- What are the options described for potential protective actions in the ingestion exposure pathway?
- What arrangements are made to coordinate potential decisions with other political jurisdictions, if necessary?
- What is the appropriate coordination between decision makers, if more than one individual has jurisdiction?

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- Are representatives from Nuclear Insurers going to play in the exercise and address compensation for loss of goods?

During the exercise, in addition to evaluating activities related to the items listed above, be sure to:

- Note times for all decisions including precautionary actions.
- Observe all coordination activities between decision makers and technical staff.
- Obtain copies of all;
  - Laboratory data input (real or controller injected)
  - Calculations
  - Maps or descriptions of impacted areas
  - Formal recommendations made to decision makers

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**SUB-ELEMENT 2.e – Radiological Assessment and Decision-Making Concerning Relocation, Re-entry and Return**

**Criterion 2.e.1 - Timely relocation, re-entry, 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.**

**For Relocation**

According to the ORO's plan/procedures and the extent of play agreement:

- Is there a description of a procedure to estimate integrated dose in contaminated areas and compare it to the PAGs?
- Is there a description of how areas to be restricted are determined based on the following factors:
  - the mix of radionuclides in deposited materials,
  - calculated exposure rates vs. the PAGs, and
  - field samples of vegetation and soil analyses?
- Does the plan use the optional approach (230 µR/hr) to determine the restricted area boundary?
- Is there provision to relocate those who reside in areas where the projected dose is in excess of relocation PAGs?
- Is there a procedure to control access to evacuated and restricted areas and what agencies have that responsibility?

During the exercise, in addition to evaluating activities related to the items listed above, be sure to:

- Document how the ORO determined the area(s) to be restricted.
- Note what the ORO does to control access to restricted areas.

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**For Re-entry**

According to the ORO's plan/procedures and the extent of play agreement:

- Is there a description of how to develop a coordinated strategy for authorized re-entry of individuals to the restricted zone? In this description, is consideration given to:
  - Established exposure limits,
  - Maintenance of essential services (e.g., fire protection, utilities),
  - Security needs (e.g., police patrols),
  - Maintenance of property (e.g., care for farm animals), and
  - Retrieval of important possessions?
- Is there a procedure for controlling the exposure of workers and members of the general public who temporarily re-enter the restricted zone(s)?
- Does the procedure for exposure control include:
  - Provisions for direct-reading dosimeters and non direct-reading dosimeters to individuals and/or their escorts entering the restricted zone,
  - Ascertaining where workers and members of the public are going, why and for how long,
  - Provision of maps and plots of radiation exposure rates, and
  - Advising workers and members of the public on which areas to avoid?
- Is there a description of how to develop exit procedures, including:
  - Monitoring of individuals, vehicles and equipment,
  - Decision criteria for decontamination, and
    - Disposition of dosimeters and maintenance of the re-entry radiation exposure records of workers and members of the public who re-entered.

During the exercise, in addition to evaluating activities related to the items listed above, be sure to:

- Note the exposure limits, including the time period over which the dose would accumulate.
- Document how the ORO determined who should be allowed to re-enter the restricted zone, and what provisions were made to determine and control their exposure. Where and to whom were dosimeters and exposure record cards to be turned in?
- Document how the ORO provided for exit from the restricted area, including monitoring of persons, vehicles and equipment.

**For Return**

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According to the ORO's plan/procedures and the extent of play agreement:

- Is it indicated that return is permitted to the boundary of the restricted area(s) based on:
  - The relocation PAG,
  - Changing conditions (e.g., cancellation of the ECL, relaxation of restrictive measures, change in measurements of radiation from ground deposition), and/or
  - Restoration of services and facilities (e.g., medical and social services, utilities, roads, and schools)?

During the exercise, in addition to evaluating activities related to the items listed above, be sure to:

- Note what the decision to allow people to return to the boundaries of the restricted area was based on.
- Note if implementation of the decision was supported by restoration of services and facilities, such as:
  - Decontamination of hot spots, if necessary,
  - Utilities,
  - Food stores and restaurants reopened,
  - Hospitals restaffed and reopened, and
  - Schools reopened.
- Is there a procedure for providing medical and social assistance for relocated individuals?

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**EVALUATION AREA 3 - PROTECTIVE ACTION IMPLEMENTATION**

**SUB-ELEMENT 3.a – Implementation of Emergency Worker Exposure Control**

**Criterion 3.a.1 - The OROs issue appropriate dosimetry and procedures, and manage radiological exposure to emergency workers in accordance with the plans and procedures. Emergency workers periodically and at the end of each mission read their dosimeters and record the readings on the appropriate exposure record or chart.**

According to the OROs plan/procedures and the extent of play agreement:

- Who (identify by title and organization) makes the decision to dispatch emergency workers?
- When (under what circumstances) will emergency workers be dispatched?
- Are they prepared to brief emergency workers on the use of dosimetry, including:
  - Zeroing direct-reading dosimeters,
  - Checking the direct-reading dosimeters periodically during an emergency response, (e.g., every 15 to 30 minutes),
  - Recording the readings of the direct-reading dosimeters on exposure record(s),
  - Radiation exposure limits and turn-back values,
  - Proper use of permanent record dosimeters, and
  - Where and to whom to return their dosimetry at the conclusion of the emergency or mission?
- What are the administrative reporting limits, and have they been pre-established at a level low enough to consider subsequent calculation of TEDE?
- Who will determine whether to replace an emergency worker who has been exposed, and how is that determined?
- What type of emergency worker exposure control is available for bus drivers, if required?
- Who issues dosimetry to bus drivers, if bus drivers are required to have dosimetry?
- Indicate which emergency workers will receive personal dosimetry, and which will have their exposure recorded by group dosimeters (such as those at reception centers, emergency operations centers, counting laboratories, etc.) worn either by a group leader or placed strategically in a facility?

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During the exercise, in addition to evaluating activities related to the items listed above, be sure to:

- If instructed, verify that the dosimetry kits being distributed to emergency workers are those specified in the plan.
- Observe the Radiological Officer (or designated staff member) brief the emergency workers on exposure control equipment and methodology.
- Note whether emergency workers undertaking life-saving missions or protecting valuable property or large populations were briefed on the increased risk from radiation.
- Note whether emergency workers read their dosimetry on a regular basis as specified in the plan, and note the result on their exposure record cards, including those being monitored by a group dosimeter or dosimeters.
- Note whether all emergency workers have been issued TLDs.
- Interview at least two emergency workers.
- Determine whether emergency workers know what the administrative reporting exposure limits are and what to do when the limits are reached.
- Determine whether emergency workers know what the maximum exposure limits are, what activities would warrant receiving that kind of dose, and who would authorize such activities.

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**SUB-ELEMENT 3.b – Implementation of KI Decision**

**Criterion 3.b.1 - KI and appropriate instructions are available should a decision to recommend use of KI be made. Appropriate record keeping of the administration of KI for emergency workers and institutionalized individuals (not the general public) is maintained.**

According to the OROs plan/procedures and the extent of play agreement:

- Will they provide KI to the general public?
- How will they distribute KI to those who require it?
- How will those (other than the general public) who ingest KI record that information (including time and date). How will the ORO keep track of the information?
- How will the decision to take KI be disseminated to emergency workers, institutionalized individuals, and, if applicable, the general public?
- Are there instructions for the use of KI, including:
  - Reason for taking KI,
  - Dosages and time period within which KI should be taken, and
  - Possible side effects.

During the exercise, in addition to evaluating activities related to the items listed above, be sure to:

- Note how KI is distributed to those who may need to take it. Note whether instructions on the use of KI were included with the KI.
- Note how the decision to take KI was disseminated to emergency workers, institutionalized individuals, and, if applicable, to the general public.
- Note whether the ORO has a method of tracking who, other than the general public, ingested KI and when.
- Determine if emergency workers have a basic knowledge of procedures for ingestion and recording the use of KI, even if the scenario does not drive the use of KI. (This can be accomplished by interview.)

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**SUB-ELEMENT 3.c. – Implementation of Protective Actions for Special Populations**

**Criterion 3.c.1 – Protective action decisions are implemented for special populations other than schools within areas subject to protective actions.**

SPECIAL POPULATIONS include: hospitals, nursing homes, correctional facilities, mobility impaired and special needs individuals, hearing impaired individuals, and transportation dependent individuals.

According to the OROs plan/procedures and the extent of play agreement:

- Who will notify special populations?
- What is the method used to notify special populations?
  - EAS or other notification method,
  - Telephone,
  - Tone-alert radio,
  - Telecommunications devices for the deaf (TDD/TTY),
  - Other.
- Who will identify and notify transportation resources/alternate locations for special populations, if necessary?
- Where are these locations and resources?
- If there is a gap in resources, how will back up transportation resources and/or alternate locations for special populations be identified?
- What emergency response actions are the administrators of facilities that have special populations required to implement?

During the exercise, in addition to evaluating activities related to the items listed above, be sure to:

- Record the PAD and the time the PAD was reached or received for special populations.
- Identify the groups that were notified. Check for up-to-date lists of special populations.
- Check to see if the administrator of each special population's facility has a current plan?
- Note the method(s) used to make notifications and who made the notifications.
- Document the names of the transportation provider companies including special resources for disabled persons (some calls to transportation providers should be

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actual calls, as indicated in the extent of play). All calls, real and simulated, should be logged (obtain a copy of the log maintained of both actual and simulated calls to special populations and transportation resources).

- Note any gaps identified between the transportation resources needed and the resources available and whether alternate resource providers were identified and resources provided.

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**SUB-ELEMENT 3.c. – Implementation of Protective Actions for Special Populations**

**Criterion 3.c.2 – OROs/School officials decide upon and implement protective actions for schools.**

Schools include: all public schools, licensed day care centers, and participating private schools.

According to the OROs plan/procedures and the extent of play agreement:

- Does the plan indicate the school district(s) located within the EPZ?
- Does the plan address licensed day care centers and private schools?
- Do the schools have separate plans?
- Who (title and organization) notifies the school district(s) and by what means?
- At what ECL would the school district(s) be notified?
- What precautionary protective actions can the school district(s) take?
- What is the school population, including all staff?
- Where would students be transported?
- Who would notify bus drivers and where do the bus drivers report?
- What is the potential number of buses available?
- How would parents of students be notified?
- Does the plan indicate how soon information would be provided to parents regarding the status of their children?
- Are there schools located outside the EPZ that have students who live within the EPZ? What are the arrangements for these students?
- Does the plan indicate the type of communications capabilities between the buses and the school officials?
- How does the plan indicate school officials will provide information to OROs on the status of school children?

Out-of-Sequence – Interview/Demonstration:

- Will this be an out-of-sequence school demonstration?

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- If out-of-sequence, will interviews be conducted or will there be an actual demonstration?
- If interviews only, where, when and with whom will they be conducted?
- Does the extent of play indicate time and location of school to be evaluated by interview?
- Does the extent of play indicate who will be available for the interview and are any specifics indicated, such as availability of dosimetry kits, appropriate maps, etc.?
- If this is to be an actual demonstration: does the extent of play indicate time and location of school?
- Does the extent of play indicate who must be available and what actions must occur?
- Will actions include a demonstration by the bus driver to travel from the school to the relocation site?

During the exercise, in addition to evaluating activities related to the items listed above, be sure to:

- Record the ECL, time, and who notified school official(s). (All school district(s) must be contacted.)
- Note what protective action was used:
  - Cancellation of School,
  - Early dismissal,
  - Shelter-in-Place, or
  - Evacuate.
- Note what method was used to notify parents.
- Observe whether there was coordination with the ORO's Public Information Officer to determine the correct information on the status of protective actions for schools.

Out-of-sequence – Interview:

- Note who would notify the school.
- Note at what ECL would the school be notified.
- Observe whether there is a current copy of the plan available at the school.
- Determine what actions the school would take.

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- Determine whether the bus driver is aware of where to take the students or has a current map to the location.
- If required by the plan, note if the bus driver is knowledgeable about emergency worker exposure control (dosimetry).
- Determine what responsibilities the school has after the children arrive at the reception center.
- Note who notifies the parents of actions taken to protect the students, and when.
- Document the communication systems used to notify schools and parents.

Out-of-sequence – Actual Demonstration:

- Observe whether the school has a current copy of the plan available.
- Determine who notified the school and how they received the notification.
- Determine who notified the bus drivers to mobilize and how they received the notification.
- Note whether the bus driver had an accurate map of the route, if needed.
- Note how the school communicated with the bus drivers while they are en route, if required in the plan.
- If required, determine whether the bus driver is knowledgeable about emergency worker exposure control (dosimetry).
- Determine what responsibilities the school has after the children arrive at the reception center.
- Note who notifies the parents of actions taken to protect the students, and when.

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**SUB-ELEMENT 3.d. – Implementation of Traffic and Access Control**

**Criterion 3.d.1. – Appropriate traffic and access control is established. Accurate instructions are provided to traffic and access control personnel.**

According to the OROs plan/procedures and the extent of play agreement:

- Who has the responsibility for establishing traffic and/or access control points (TCP/ACPs)?
- Are there pre-identified traffic and/or access control points established in the plan?
- Is there coordination among various OROs, such as:
  - Local Law Enforcement,
  - State Law Enforcement,
  - National Guard,
  - State and/or local transportation departments.
- When (at what ECL) would TCP/ACPs be established?
- Who deploys TCP/ACP personnel to the assigned location?
- According to the plan, when and who has responsibility for notifying, and what agency is contacted for control of:
  - Water Traffic,
  - Rail Traffic, and
  - Air Traffic.
- In addition to required activities in the EOC, will there be an actual deployment of traffic/access control personnel or an interview?

During the exercise, in addition to evaluating activities related to the items listed above, be sure to:

At the EOC:

- Check that TCP/ACPs were established (identified, staffed, and established) in timely manner for the affected areas.
- Note whether instructions were provided to traffic and access control staff on changes/modifications of protective action decisions.
- Note whether access control personnel were moved when protective action decisions expanded the affected area.
- Document time and ECL when rail, water, and air traffic access control were notified by the ORO.

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Traffic and Access Control Personnel (Interview or Actual Demonstration):

- Determine if they have accurate knowledge of their roles and responsibilities, including:
  - Location of traffic and/or access control point(s),
    - The Exposure Control Items Are Evaluated Under Criterion 3.a.1 or 3.b.1
    - Radiological Exposure Control, including:
      - Dosimetry,
      - Knowledge of administrative and turn back limits,
      - KI – knowledge of purpose, who authorizes, etc.
- Location of reception/registration centers,
- Location of emergency worker monitoring and decontamination center, and
- Equipment available to establish traffic and access control points.

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**SUB-ELEMENT 3.d. – Implementation of Traffic and Access Control**

**Criterion 3.d.2 – Impediments to evacuation are identified and resolved.**

According to the OROs plan/procedures and the extent of play agreement:

- How would the resources to remove impediments to evacuation be identified and coordinated?
- What organizations are identified to assist in impediment removal?

During the exercise, in addition to evaluating activities related to the items listed above, be sure to (*as required by the scenario*):

- Identify impediments to evacuation.
- Note whether organizations were identified to assist in removal of impediments.
- Note if actions (actual or simulated) to remove impediments are taken in a timely manner.
- Obtain log of all contacts (actual or simulated) with resources.
- Note if resources were available when needed.

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**SUB-ELEMENT 3.e – Implementation of Ingestion Pathway Decisions**

**Criterion 3.e.1 - The ORO demonstrates the availability and appropriate use of adequate information regarding water, food supplies, milk, and agricultural production within the ingestion exposure pathway planning zone for implementation of protective actions.**

According to the ORO's plan/procedures and the extent of play agreement:

- What information is available on the location of water supply intakes, the location of dairy operations, the location of various crops, the location of food processing plants, and the harvest period for crops?
- If the information is not in the plan/procedures, from what source is this information to be obtained?
- In addition to the location of agribusiness sites, what other information is in the database (e.g., name and address of owner)?

During the exercise, in addition to evaluating activities related to the items listed above, be sure to:

- Document any coordination of implementation of protective actions.
- Document any precautionary actions taken to prevent contamination.

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**SUB-ELEMENT 3.e – Implementation of Ingestion Pathway Decisions**

**Criterion 3.e.2 – Appropriate measures, strategies, and pre-printed instructional material are developed for implementing protective action decisions for contaminated water, food products, milk and agricultural production.**

According to the ORO's plan/procedures and the extent of play agreement:

- (This is under 3.e.1) Are Federal and other resources identified (i.e., the Federal Radiological Emergency Response Plan (FRERP), compacts, etc.) that will assist with determination and implementation of ingestion pathway protective actions?
- What are the State/local requirements to implement embargos or condemnations? Who delivers condemnation or embargo notices to agribusiness?
- Where or how are condemned food products taken for disposal?
- What assistance do Federal resources provide in the implementation of protective measures in the ingestion pathway?
- What agencies are to participate in this demonstration and what level of play has been established in the extent of play?

During the exercise, in addition to evaluating activities related to the items listed above, be sure to:

- Document measures taken and strategies developed by the ORO to implement protective actions for general public and for food producers in the IPZ, including preventing distribution of potentially contaminated food.
- Document arrangements for delivery of all necessary legal notices.
- Note coordination and communications among organizations responsible for implementing protective actions (field play may be simulated – see extent of play agreement).
- Observe whether reproduction-ready information and instructions to pre-determined individuals and businesses were available for production and distribution (obtain copies of available information). Check to see if the information on the handouts is current.

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**SUB-ELEMENT 3.f – Implementation of Relocation, Re-entry, and Return Decisions**

**Criterion 3.f.1 - Decisions regarding controlled re-entry of emergency workers and relocation and return of the public are coordinated with appropriate organizations and implemented.**

**For Relocation**

According to the OROs plan/procedures and the extent of play agreement:

- Is there a description of the OROs capability to coordinate and implement decisions concerning relocation of individuals from now-restricted areas?
- Do the procedures described include provision of both short-term and long-term relocation of evacuees from now-restricted areas?
- How will decisions and instructions for relocation be communicated to organizations and the public?
- How will transportation-dependent evacuees be transported from the restricted zone if they had not been previously evacuated?

During the exercise, in addition to evaluating activities related to the items listed above, be sure to:

- Observe the ORO decision-makers coordinate and implement decisions for relocation of individuals from restricted areas.
- Note whether the ORO is prepared to provide both short-term and long-term relocation of evacuees.
- Note how decisions and instructions for relocation are communicated to organizations and to the public.
- Note if decisions on relocation were implemented. If so, were affected organizations notified of relocation decisions?
- Note the arrangements provided for evacuation of transportation-dependent evacuees.
- Observe the arrangements made to relocate those displaced as a result of contamination, and provisions made for their care and support.
- Note if public instructions on relocation were developed and issued. Obtain copies of all public information releases.

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**For Re-entry**

According to the OROs plan/procedures and the extent of play agreement:

- Is there a description of the OROs capability to coordinate and implement decisions concerning temporary re-entry of individuals to restricted areas?
- How will those individuals permitted temporary re-entry to restricted areas be protected from unnecessary radiation exposure?
- What are the procedures for monitoring and decontaminating vehicles, equipment and personnel that have been allowed re-entry into the restricted area?

During the exercise, in addition to evaluating activities related to the items listed above, be sure to:

- Observe the ORO decision-makers coordinate and implement decisions for temporary re-entry of individuals to restricted areas. Note the questions asked regarding:
  - the individuals' objectives,
  - locations to be visited, and
  - associated time frames.
- Document the assignment of direct-reading and non-direct-reading dosimeters for emergency workers, and for individuals permitted temporary re-entry to a restricted area. Note the briefing that persons permitted temporary re-entry receive regarding dosimetry use and what they are to do with it and their exposure record cards when they exit the restricted area(s).
- Note whether the ORO provides to emergency workers and individuals intending to re-enter the restricted area with advice on areas to avoid.
- Get copies of maps and plots of radiation exposure rates.
- Document the procedures for exit from the restricted area(s), including:
  - monitoring of individuals,
  - monitoring of vehicles, and
  - monitoring of equipment.

**For Return**

According to the OROs plan/procedures and the extent of play agreement:

- Is there a description of the OROs' capability to coordinate and implement decisions concerning return of individuals to areas that were evacuated during the plume phase?

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- Are there procedures for permitting a gradual return of evacuees to low-level contaminated areas?
- Does the procedure identify and prioritize services and facilities that require restoration before return of evacuees can occur, and are the procedures and resources for their restoration described? Examples of services and facilities include:
  - Medical services,
  - Social services,
  - Utilities,
  - Roads,
  - Schools, and
  - Intermediate term housing for relocated persons.
- Does the plan describe resources potentially available to the ORO to implement return decisions, including Federal resources identified in the FRERP, and other resources (e.g., compacts, nuclear insurers, etc.)?

During the exercise, in addition to evaluating activities related to the items listed above, be sure to:

- Observe the actions taken by the OROs to coordinate and implement decisions concerning return of individuals to areas that were evacuated during the plume phase.
- Document the measures taken to restore services and facilities, including:
  - Medical services,
  - Social services,
  - Utilities,
  - Roads,
  - Schools, and
  - Intermediate term housing for relocated persons.
- Observe the resources employed by the ORO to implement decisions to return, including Federal resources as identified in the FRERP.
- Track and note the communications and contacts made, real and simulated, to implement return decisions.

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**EVALUATION AREA 4 – FIELD MEASUREMENT AND ANALYSIS**

**Sub-element 4.a – Plume Phase Field Measurements and Analyses**

**Criterion 4.a.1 - The field teams are equipped to perform field measurements of direct radiation exposure (cloud and ground shine) and to sample airborne radioiodine and particulates.**

According to the ORO's plan/procedures and the extent of play agreement:

- From what location is the field monitoring team to be dispatched?
- What is the equipment and supply inventory for to the field monitoring teams? Consider radiation monitoring instrumentation, air sampling devices, and instrumentation to count air sample components
- How are pre-deployment operational checks made on monitoring instruments?
- What special methods are used for high range instruments?
- Where will teams obtain spare equipment in the event of broken or out of specification instruments?
- What adsorbent is used to collect a radioiodine sample and what is the required sample volume?

During the exercise, in addition to evaluating activities related to the items listed above, be sure to:

- Verify inventories of field instruments and supplies.
- Observe operational checks.
- Verify that spare equipment or instruments are obtained for missing, broken, or out of specification items.

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**Sub-element 4.a – Plume Phase Field Measurements and Analyses**

**Criterion 4.a.2: Field teams are managed to obtain sufficient information to help characterize the release and to control radiation exposure.**

According to the ORO's plan/procedures and the extent of play agreement:

- Who briefs the field monitoring team prior to deployment and what topics are to be covered?
- Who controls the movement of the field teams and the determination of sample location?
- What approach is used to select appropriate sampling locations, pre-designated sampling points or plume traverse (while maintaining specified exposure limits)?
- Which agency's (ORO, licensee, or other) field monitoring teams are assigned the responsibility of obtaining maximum radiation readings in the downwind areas?
- If the ORO teams have this responsibility, what special exposure control mechanisms are used to control exposure and/or dose?
- What agency, if any, other than the ORO is to participate in this demonstration and what limitations or restrictions have been established?

During the exercise, in addition to evaluating activities related to the items listed above, be sure to:

- Observe pre-deployment briefing.
- Document all instructions or assignments given to team. Include the time of assignment and the time assignment was completed.
- Obtain copies of chain-of-custody forms, if appropriate.

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**Sub-element 4.a – Plume Phase Field Measurements and Analyses**

**Criterion 4.a.3 - Ambient radiation measurements are made and recorded at appropriate locations, and radioiodine and particulate samples are collected. Teams will 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 sampling media.**

According to the ORO's plan/procedures and the extent of play agreement:

- What method is used to establish that the team is actually in the plume and not just in an area with an elevated radiation reading due to shine (cloud or ground)?
- If specified, what is the minimum acceptable ambient radiation reading before a meaningful air sample is to be taken?
- What method is specified to ensure that the plume has not shifted away from the sampling location or has not changed significantly in strength during the air sampling?
- What is the designated background exposure rate that requires moving to a low background area to count air sample media?
- If the field team does not count the air sample media in the field, what system is in place to get the sample media counted?
- How are field measurement results transmitted to the specified location?
- What procedures are used to ensure that samples transferred to other locations are handled in a way to maintain sample integrity? What information is required on chain-of-custody forms?
- What agency, if any, other than the ORO is to participate in this demonstration and what limitations or restrictions have been established?

During the exercise, in addition to evaluating activities related to the items listed above, be sure to:

- Document all field team instructions and all measurement results that are transmitted to the appropriate location.
- Document all controller injects.
- Obtain copies of all work sheets completed by the field teams, if appropriate.
- Obtain a copy of any chain-of-custody forms that were completed.

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**Sub-element 4.b – Post Plume Phase Field Measurements and Sampling**

**Criterion 4.b.1 - The field teams 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.**

According to the ORO's plan/procedures and the extent of play agreement:

- How is the area of interest (that impacted by the passing plume) going to be identified?
- If aerial measurements are to be used, what method or procedure will be used to identify the area of interest that is below the detection limit of the aircraft?
- What are the ORO agencies that will supply field teams?
- Which ORO agencies oversee contamination control and exposure for the teams?
- What instruments, equipment, and supplies are required for each type of sampling assignment?
- What are the specified minimum sample sizes to be collected?
- How and when will the results of direct radiation measurements be transmitted to the appropriate location?
- How will the collected samples be transported to a laboratory for analysis?
- What agency, if any, other than the ORO is to participate in this demonstration and what limitations or restrictions have been established?

During the exercise, in addition to evaluating activities related to the items listed above, be sure to:

- Document all instructions given to the field team.
- Document all controller injects.
- Document all communications to the field team coordinator.
- Obtain copies of all worksheets completed by the team, including any chain-of-custody forms.

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**Sub-element 4.c - Laboratory Operations**

**Criterion 4.c.1 - The laboratory is capable of performing required radiological analyses to support protective action decisions.**

According to the ORO's plan/procedures and the extent of play agreement:

- What laboratory is designated to demonstrate this criterion?
- Which radionuclides, that typically might be released in a reactor accident, does the designated laboratory have the capability to analyze? Does the laboratory have the capability to analyze atypical nuclides such as transuranics or nuclides that might be used by terrorists?
- What is the highest contact radiation reading allowed on any sample that is to be processed by the laboratory, if any?
- If the laboratory lacks the capability to analyze certain radionuclides or receives a sample that exceeds a radiation reading limit, what arrangements are in place to obtain the analysis of these nuclides?
- How and how often are the instruments used in the laboratory calibrated? Are all instrument calibrations traceable to (National Institute of Standards and Technology (NIST) standards? If not, what standard is the basis for the calibrations?
- How are sample stored to reduce the potential for increased background levels in the laboratory?
- How are samples prepared for counting and what contamination control procedures are used during this process?
- How are sample aliquot sizes documented?
- How have the sample count times been modified to account for samples with higher radioisotope levels than normal?
- What sample preservation techniques are to be employed?
- How are chain-of-custody forms processed and sample integrity maintained?

During the exercise, in addition to evaluating activities related to the items listed above, be sure to:

- Document all controller injects.
- Document (or obtain copies of) calibration results.

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- Observe sample preparation with particular attention to contamination control and sample aliquot documentation.
- Observe the transmission of analytical results to the appropriate location.

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**EVALUATION AREA 5 – EMERGENCY NOTIFICATION AND PUBLIC INFORMATION**

**SUB-ELEMENT 5.a – Activation of the Prompt Alert and Notification System**

**Criterion 5.a.1 – Activities associated with primary alerting and notification of the public are completed in a timely manner following the initial decision by authorized offsite 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 FEMA REP Guidance.**

**TIMELY:** The responsible ORO personnel/representatives demonstrate actions to disseminate the appropriate information/instructions with a sense of urgency and without undue delay.

According to the ORO's plan/procedures and the extent of play agreement:

- What alert methods are indicated in the plans?
  - Siren system,
  - Tone-alert radios,
  - Primary route alerting,
  - Telephone calls to institutions, and/or
  - Telecommunication devices for the deaf (TDD/TTY)
- Who has responsibility for activating the alert and notification system?
- Where is the decision made to activate the alert and notification system?
- Where are sirens or other alerting devices activated? What are the procedures in the event of a siren or other alerting device failure?
- Who generates and obtains approvals for the initial EAS or other notification method message?
- Where is the initial EAS or other notification method message broadcast?
- Is there verification between the ORO and the broadcast station of the EAS message prior to broadcast?
- How does the ORO verify that the EAS station received the message?
- Who develops and distributes/broadcasts follow-on emergency instructions?
- What are the procedures to ensure that messages can be broadcast 24-hours per day?
  - If partially automated, what does the plan indicate?

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- What notification methods are indicated in the plans?
  - EAS or other notification method station,
  - Direct broadcast to EAS station or other notification method,
  - Siren with public address system,
  - NOAA<sup>2</sup> weather radio,
  - Tone-alert radios,
  - Primary Route notification,
  - Telephone calls to institutions, and/or
  - Telecommunication devices for the deaf (TDD/TTY)
- For primary route alerting and notification, how long are the routes?
- Does the plan have pre-scripted EAS or other notification method messages?
- Does the plan contain pre-scripted follow-on messages or news releases?
- Do the pre-scripted messages contain all FEMA requirements?

During the exercise, in addition to evaluating activities related to the items listed above, be sure to:

[At ORO: Sequence is = Alert then Notification]

- Note time of Alert Signal (can be simulated).
  - Method used: sirens, tone alert radios, other
- Note time of instructional message.
  - Method used: EAS station, National Weather Service, other
- Observe whether message contents were clear and accurate? Did they correctly reflect the PADs? (Obtain copies.)
- Note if the message was pre-scripted. If so, did it contain all the required FEMA guidance?
- Identify the ORO that authorized the A & N sequence.
- Note if the ORO issued follow-on news releases/special news broadcasts after activation of the EAS or other notification method. (Obtain copies of the messages.)
- Observe whether the EAS station or other notification method was kept updated by the ORO about which messages to continue broadcasting, and at what time intervals.
- Document any delays or reasons why message(s) were not timely.

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<sup>2</sup> NOAA=National Oceanic and Atmospheric Administration

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At EAS Station:

- Observe whether EAS station staff demonstrate the procedures to broadcast messages.
- Note whether the EAS station verifies, if required, that the message was from ORO, and that it is the correct message?
- Note time(s) of all messages.
- Note if the EAS station was kept updated with new information and messages.
- Interview personnel to determine 24-hour capability.

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**SUB-ELEMENT 5.a – Activation of the Prompt Alert and Notification System**

**Criterion 5.a.2 – [RESERVED]**

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**SUB-ELEMENT 5.a – Activation of the Prompt Alert and Notification System**

**Criterion 5.a.3 – Activities associated with FEMA approved exception areas (where applicable) are completed within 45 minutes following the initial decision by authorized offsite emergency officials to notify the public of an emergency situation. Backup alert and notification of the public is completed with 45 minutes following the detection by the ORO of a failure of the primary alert and notification system.**

FEMA Approved Exception Areas: Rural, low population and recreational areas 5-10 miles from the plant, as identified in approved Alert and Notification System Design for each site.

According to the ORO's plan/procedures and the extent of play agreement:

- Does this location have any FEMA approved exception areas where alert and notification must be completed within 45 minutes?
- How many approved exception routes are there?
- What message would be delivered while on the route?
- How would that message be delivered?
  - Voice,
  - Public address system, and/or
  - Flyers.
- Is there a plan for back up route alerting if there is siren failure?
- What are the resources for providing backup route alerting?
- Who notifies the resources to begin backup route alerting?
- How are the resources notified?
- What message would be provided to the public?

During the exercise, in addition to evaluating activities related to the items listed above, be sure to:

- Document whether notification of exception areas was completed within 45 minutes following initial decision.
- Note if a route (or routes) was actually demonstrated (or simulated if inclement weather).
- Note the length of time it took to run the route, if it was actually demonstrated.

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- Check to see if the message contents included elements required by current FEMA REP guidance (obtain copy of message). Note that actual message should be read to evaluator – but not broadcast.
- Note if the public address system was tested at an agreed upon location.
- Document any delays or cause why message not considered timely.

For Backup Alert and Notification: (per plans and extent of play agreement)

- Note whether backup alert and notification was completed within 45 minutes after detection that primary alert and notification system failed?
- Document whether a route (or routes) was actually demonstrated? (Check extent of play agreement)
- Check the message contents to be sure that it included elements required by current FEMA REP guidance. Note that the actual message should be read to evaluator – but not broadcast.
- Note if the public address system was tested at an agreed upon location.
- Document any delays or cause why message not considered timely.

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**SUB-ELEMENT 5.b. – Emergency Information and Instructions for the Public and the Media**

**Criterion 5.b.1. – OROs provide accurate emergency information and instructions to the public and the news media in a timely manner.**

**TIMELY MANNER:** The responsible ORO personnel/representatives demonstrate actions to disseminate the appropriate information/instructions with a sense of urgency and without undue delay.

According to the ORO's plan/procedures and the extent of play agreement:

What facility is designated as the media center? Can news be disseminated from other locations?

How are subsequent EAS message and "Special New Broadcasts" handled?

- Who is designated as the spokesperson(s) for the facility? Do local governments send representatives to the facility?
- How are messages coordinated with all appropriate staff, organizations, and OROs?
- Are there pre-scripted messages in the plan or procedures?
- Who is responsible for the Public Inquiry hotline? Where is the hotline located?
- What are the approved sources of information that are available to the hotline staff?
- Is public information required to be available in non-English languages at this location/site?

During the exercise, in addition to evaluating activities related to the items listed above, be sure to:

- Document whether emergency information and instructions:
  - Were consistent with protective action decisions made by appropriate officials,
  - Were current (invalid or outdated information deleted),
  - Were complete, containing all necessary and applicable instructions for public,
  - Contained evacuation instructions including evacuation routes,
  - Indicated Reception Center locations,
  - Included information on what to take when evacuating,
  - Included information on pets,
  - Described shelter-in-place information (if applicable),

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- Contained information on schools and special populations,
  - Listed a public information or inquiry telephone number
  - Referenced Public Information Brochures and other printed sources of emergency information (such as telephone books),
  - Described routes and locations using familiar landmarks and road names.
- Document media briefings: Number, times, content of briefings, and whether information disseminated was accurate.
  - Document press releases: Number, times, copies of releases, and accuracy of information. Observe whether copies of news releases and EAS or other notification method messages were retained and provided to media? (Obtain copies and copy of media log and, if there is one, a copy of the media kit.)
  - Note that incoming and outgoing messages and media releases were logged. (Obtain a copy of the log.)
  - Note whether the ORO updated the media and the EAS station(s) or other notification method as information developed.
  - Note whether information is repeated at pre-established intervals. If so, how often was information repeated?
  - Compare EAS or other notification method, Special News Broadcasts messages, press releases, media briefings, and media inquiries for consistency and accuracy.
  - Observe if the media spokesperson (i.e., the Public Information Officer (PIO)) handled media inquiries and telephone inquiries.
  - Note whether media broadcasts were monitored.
  - Determine whether emergency information was disseminated in a non-English language, if required.
  - For Post Plume Phase –
    - Document whether there was rapid dissemination of ingestion pathway information to pre-determined individuals and businesses?

Public Inquiry Function:

- Document whether Public Inquiry staff:
  - Obtained accurate information for callers,
  - Referred callers to appropriate information source(s),
  - Coordinated with the Public Information Officer,
  - Provided the PIO with information on trends or false rumors.
- Verify that trends and/or rumors are addressed in media releases.

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- Note whether the Public Inquiry staff monitored media broadcasts.

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**EVALUATION AREA 6: SUPPORT OPERATION/FACILITIES**

**SUB-ELEMENT 6.a – Monitoring and Decontamination of Evacuees and Emergency Workers, and Registration of Evacuees**

**Criterion 6.a.1: The reception center/emergency worker facility has appropriate space, adequate resources, and trained personnel to provide monitoring, decontamination, and registration of evacuees and/or emergency workers. (NUREG-9654, J.10.h.; K.5.b.)**

According to the ORO's plan/procedures and the extent of play agreement:

**For Evacuees (General Public)**

- Where will monitoring, decontamination, and registration of evacuees occur?
- What kind of monitoring equipment will be used? Hand held? Portal monitors?
- How many personnel are trained to operate monitoring equipment?
- Is there team or group dosimetry, or strategically placed radiological monitoring instruments, for contamination control at the facility?
- What is the total population of the EPZ? What is 20% of that figure (the estimate of needed monitoring capability)?
- Is there sufficient staff and monitoring equipment specified to process 20% of population (assigned to the facility to be evaluated) within 12 hours?
- Will all required monitoring staff be demonstrated? If not, what is the agreed demonstration?
- Will at least 6 individuals be monitored per monitoring station?
- What is the action level for determining the need for decontamination?
- When an individual is found to be contaminated, what happens to their potentially contaminated vehicle?
- What procedures are used to minimize contamination within the facility?
- How are contaminated individuals separated from non-contaminated individuals?
- How are monitored and clean vehicles separated from contaminated or non-monitored vehicles?
- How are contaminated clothing and other personal belongings to be handled? Will clean clothing be provided to evacuees?

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- Are separate showers for males and females specified?
- What procedures are used if evacuees could not be adequately decontaminated?
- Will decontamination of evacuees be conducted by interview or actually demonstrated?
- What is the process used to ensure that only clean evacuees enter the registration area?
- What organization registers evacuees upon completion of monitoring and decontamination?

During the exercise, in addition to evaluating activities related to the items listed above, be sure to:

- Note whether there was adequate space for evacuees and their vehicles at the reception center.
- Document the type and quantity of monitoring equipment used.
- Note how monitoring equipment is checked to ensure it is operational.
- Document the number of personnel available to perform monitoring of vehicles and evacuees (compare to the number indicated in the extent of play agreement).
- Document the number of personnel available to perform decontamination of evacuees (compare to the number indicated in the extent of play agreement).
- Determine whether, based on the demonstration, the facility can monitor 20% of anticipated evacuees within 12 hours.
- Note if contamination control procedures, including storage of contaminated clothing and possessions, were followed.
- Note whether there are separate showers for males and females.
- Observe what is done if an evacuee cannot be successfully decontaminated.
- Note if the access into the clean (registration) area is controlled adequately.
- Note if a registration record was established for each individual. The record (which can be written or recorded audiovisually) should contain the individual's name, address, results of monitoring, and time of decontamination (if needed).

According to the ORO's plan/procedures and the extent of play agreement:

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For Emergency Workers

- Where will monitoring, decontamination, and registration of emergency workers occur?
- What kind of monitoring equipment will be used?
- How many personnel are trained to operate monitoring equipment at the facility for emergency workers?
- What is the action level for determining the need for decontamination?
- What procedures are used to minimize contamination within the facility?
- How are contaminated emergency workers separated from non-contaminated emergency workers?
- How are contaminated clothing and other personal belongings to be handled? Will clean clothing be provided to emergency workers?
- Will decontamination of emergency workers be conducted by interview or actually demonstrated?
- Are separate showers for male and female emergency workers specified?
- What procedures are used if emergency workers could not be adequately decontaminated?

During the exercise, in addition to evaluating activities related to the items listed above, be sure to:

- Note whether there was adequate space for emergency workers at the emergency worker decontamination facility.
- Document the type and quantity of monitoring equipment used.
- Note how monitoring equipment is checked to ensure it is operational.
- Note whether there are separate showers for male and female emergency workers.
- Note whether at least two emergency workers were monitored.
- Document the number of personnel available to perform monitoring of emergency workers (compare to the number indicated in the extent of play agreement).

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- Document the number of personnel available to perform decontamination of emergency workers (compare to the number indicated in the extent of play agreement).
- Note if contamination control procedures, including storage of contaminated clothing and possessions, were followed.
- Observe what is done if an emergency worker cannot be successfully decontaminated.
- Note if a record of monitoring and decontamination (if necessary) is kept for each emergency worker.

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**SUB-ELEMENT 6.b – Monitoring and Decontamination of Emergency Worker Equipment**

**Criterion 6.b.1 - The facility/ORO has adequate procedures and resources for the accomplishment of monitoring and decontamination of emergency worker equipment including vehicles.**

According to the ORO's plan/procedures and the extent of play agreement:

- Where will emergency workers' equipment be monitored and decontaminated?
- What instruments (manufacturer/model number/earphones/speaker) are used to monitor potentially contaminated vehicles/equipment?
- How are monitoring instruments operationally checked?
- What is the action level to determine if vehicle/equipment requires decontamination?
- What process is used to decontaminate vehicles and equipment?
- Will decontamination procedures be conducted through interview or actually demonstrated?

During the exercise, in addition to evaluating activities related to the items listed above, be sure to:

- Note whether there was adequate space for emergency worker equipment and their vehicles at the facility.
- Document the number of personnel available to perform monitoring of emergency worker vehicles (compare to the number indicated in the extent of play agreement).
- Describe the set-up at the facility, which should be as it would be in an actual emergency, including route markings, instrumentation, record keeping and contamination control measures.
- Document the type and quantity of monitoring equipment used.
- Note how monitoring equipment is checked to ensure it is operational.
- Observe monitoring of at least one vehicle, including air intake systems, radiator grills, bumpers, wheel wells, tires, and door handles.

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- Document the number of personnel available to perform monitoring of emergency worker equipment (compare to the number indicated in the extent of play agreement).

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**SUB-ELEMENT 6.c – Temporary Care of Evacuees**

**Criterion 6.c.1 - Managers of congregate care facilities demonstrate that the centers have resources to provide services and accommodations consistent with American Red Cross planning guidelines. [Found in MASS CARE – Preparedness Operations, ARC 3031] Managers demonstrate the procedures to assure that evacuees have been monitored for contamination and have been decontaminated as appropriate prior to entering congregate care facilities.**

According to the ORO's plan/procedures and the extent of play agreement:

- What agency is responsible for managing the congregate care center?
- How will the congregate care center be set up for the demonstration?
- How will personnel at the congregate care center ensure that evacuees entering the facility have been monitored and found to be clean of contamination?

During the exercise, in addition to evaluating activities related to the items listed above, be sure to:

- Note whether the congregate care center is set up in accordance with the extent of play agreement. If equipment (cots, blankets, sundries, food supplies) has not been brought in for the demonstration, the center staff should have a list of sources of equipment with locations and estimates of quantities.
- Document available resources for evacuees (real or simulated) arriving at the congregate care center.
- Document how the American Red Cross Guidelines on mass care will be met at this facility.
- Note whether congregate care staff check to see if evacuees have been monitored and, if necessary, decontaminated.

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**SUB-ELEMENT 6.d – Transportation and Treatment of Contaminated Injured Individuals**

**Criterion 6.d.1 - The facility/ORO has the appropriate space, adequate resources, and trained personnel to provide transport, monitoring, decontamination, and medical services to contaminated injured individuals.**

According to the ORO's plan/procedures and the extent of play agreement:

- What organization will demonstrate the capability to transport contaminated, injured individuals to the appropriate medical facilities?
- How is the hospital notified to establish a Radiological Emergency Area (REA)?
- What equipment and supplies are available in the REA?
- What information will be provided to the medical facility by the ambulance crew?
- Are procedures in place to ensure that when the (simulated) contaminated, injured evacuee arrives, urgent medical care takes precedence over monitoring, decontamination, and contamination control efforts by facility medical staff?
- What methods will be used to decontaminate the potentially contaminated victim (once he/she is medically stabilized)?
- What contamination control measures are used by the medical facility?
- What instruments will be used by the medical facility to monitor the evacuee for contamination? (Manufacturer's Name/Model Number)
- What procedures do medical staff (or the ORO) use to ensure that monitoring instruments are operational?
- What action level will trigger the need for decontamination of the contaminated evacuee?
- What methods will be used to collect and analyze samples including swabs and skin wipes?
- Where and by whom will the ambulance crew and ambulance (or other transport vehicle) be monitored and decontaminated if required?

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During the exercise, in addition to observing activities related to the items listed above, be sure to:

- Note what type of vehicle was used for the transportation of the contaminated injured?
- Note whether medical care took priority over monitoring, decontamination, and contamination control efforts.
- Note when and by whom the victim was monitored for contamination.
- Observe and document communications between the medical transport crew and the receiving hospital. Note if accident scene survey records were transferred to the medical facility staff.
- Determine the knowledge of the medical transport crew concerning where the ambulance (or other transport vehicle) and crew would be monitored and decontaminated.
- Document contamination control measures taken by the medical transport crew and at the hospital.
- Document instrumentation used by the medical transport crew and at the hospital. Note whether instruments were operationally checked (if pertinent).
- Note whether records of all survey measurements and samples taken were kept.

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**Appendix A to REP EPG**

(Per Final FRN Effective 4/25/02)

EVALUATION AREA / Sub-element / Criterion	NUREG Ref.	Obj. & Criterion (REP-14/15)
<b>1 - EMERGENCY OPERATIONS MANAGEMENT</b>		1, 2, 3, 4, 5, 14, 17, 30
<b>1.a – Mobilization</b>		
<b>1.a.1:</b> OROs use effective procedures to alert, notify, and mobilize emergency personnel and activate facilities in a timely manner.	A.4; D.3,4; E.1,2; H.4	1.1, 1.2; 30
<b>1.b – Facilities</b>		
<b>1.b.1:</b> Facilities are sufficient to support the emergency response.	H.3	2.1
<b>1.c – Direction and Control</b>		
<b>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.	A.1.d; A.2.a, b	3.1
<b>1.d – Communications Equipment</b>		
<b>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.	F.1, 2	4.1
<b>1.e – Equipment and Supplies to Support Operations</b>		
<b>1.e.1:</b> Equipment, maps, displays, dosimetry, potassium iodide (KI), and other supplies are sufficient to support emergency operations.	H.7, 10; J.10.a,b,e; J.11; K.3.a	2.1; 5.1; 8.2; 14.2

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EVALUATION AREA / Sub-element / Criterion	NUREG Ref.	Obj. & Criterion (REP-14/15)
<b>2 – PROTECTIVE ACTION DECISION MAKING</b>		
<b>2.a – Emergency Worker Exposure Control</b>		
2.a.1: 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.	J.10.e,f; K.4	5.1, 5.3; 14.1
<b>2.b – Radiological Assessment and Protective Action Recommendations and Decisions for the Plume Phase of the Emergency</b>		
2.b.1: Appropriate protective action recommendations are based on available information on plant conditions, field monitoring data, and licensee and ORO dose projections, as well as knowledge of onsite and offsite environmental conditions.	I.8, 10; Supp. 3	7.1
2.b.2: A decision-making process involving consideration of appropriate factors and necessary coordination is used to make protective action decisions (PADs) for the general public (including the recommendation for the use of KI, if ORO policy).	J.9; J.10.f,m	9.1; 14.1
<b>2.c – Protective Action Decisions for the Protection of Special Populations</b>		
2.c.1: Protective action decisions are made, as appropriate, for special population groups.	J.9; J.10.d,e	9.1; 15.1; 16.1
<b>2.d – Radiological Assessment and Decision-Making for the Ingestion Exposure Pathway</b>		
2.d.1: Radiological consequences for the ingestion pathway are assessed and appropriate protective action decisions are made based on the ORO's planning criteria.	J.9, J.11	26.1, 26.2
<b>2.e – Radiological Assessment and Decision-Making Concerning Relocation, Re-entry, and Return</b>		
2.e.1: Timely relocation, re-entry, and return decisions are made and coordinated as appropriate, based on assessments of radiological conditions and criteria in the ORO's plan and/or procedures.	I.10; J.9, M.1	28.1, 28.2, 28.3, 28.4, 28.5

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<b>EVALUATION AREA / Sub-element / Criterion</b>	<b>NUREG Ref.</b>	<b>Obj. &amp; Criterion (REP-14/15)</b>
<b>3. PROTECTIVE ACTION IMPLEMENTATION</b>		5, 11, 14, 15, 16, 17, 27, 29
<b>3.a – Implementation of Emergency Worker Exposure Control</b>		
<b>3.a.1:</b> The OROs issues appropriate dosimetry and procedures, and manage radiological exposure to emergency workers in accordance with the plan and procedures. Emergency workers periodically and at the end of each mission read their dosimeters and record the readings on the appropriate exposure record or chart.	K.3.a, 3.b	5.1, 5.2
<b>3.b – Implementation of KI Decision</b>		
<b>3.b.1:</b> KI and appropriate instructions are made available should a decision to recommend use of KI be made. Appropriate record keeping of the administration of KI for emergency workers and institutionalized individuals (not the general public) is maintained.	J.10.e	14.1, 14.3
<b>3.c – Implementation of Protective Actions for Special Populations</b>		
<b>3.c.1:</b> Protective action decisions are implemented for special populations other than schools within areas subject to protective actions.	J.10.c,d,g	15.1, 15.2
<b>3.c.2:</b> OROs/School officials implement protective actions for schools.	J.10.c,d,g	16.1, 16.2, 16.3
<b>3.d – Implementation of Traffic and Access Control</b>		
<b>3.d.1:</b> Appropriate traffic and access control is established. Accurate instructions are provided to traffic and access personnel.	J.10.g,j,	17.1, 17.2, 17.3
<b>3.d.2:</b> Impediments to evacuation are identified and resolved.	J.10.k	17.4
<b>3.e – Implementation of Ingestion Pathway Decisions</b>		
<b>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.	J.9,11	27.1
<b>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.	J.9,11	11.4; 27.2, 27.3
<b>3.f – Implementation of Relocation, Re-entry, and Return Decisions</b>		

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<b>3.f.1:</b> Decisions regarding controlled re-entry of emergency workers and relocation and return of the public are coordinated with appropriate organizations and implemented.	M.1,3	29.1, 29.2, 29.3, 29.4
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EVALUATION AREA / Sub-element / Criterion	NUREG Ref.	Obj. & Criterion (REP-14/15)
<b>4 - FIELD MEASUREMENT AND ANALYSIS</b>		6, 8, 24, 25
<b>4.a – Plume Phase Field Measurement and Analyses</b>		
4.a.1: The field teams are equipped to perform field measurements of direct radiation exposure (cloud and ground shine) and to sample airborne radioiodine and particulates.	H.10 I.7,8,9	6.1; 8.1, 8.2
4.a.2: Field teams are managed to obtain sufficient information to help characterize the release and to control radiation exposure.	I.8,11; J.10.a; H.12	6.3, 6.4
4.a.3: Ambient radiation measurements are made and recorded at appropriate locations, and radioiodine and particulate samples are collected. Teams will 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 sampling media.	I.9	6.4, 6.5; 8.3, 8.4, 8.5, 8.6
<b>4.b – Post Plume Phase Field Measurements and Sampling</b>		
4.b.1: The field teams 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.8; J.11	24.1
<b>4.c – Laboratory Operations</b>		
4.c.1: The laboratory is capable of performing required radiological analyses to support protective action decisions.	C.3; J.11	25.1, 25.2

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EVALUATION AREA / Sub-element / Criterion	NUREG Ref.	Obj. & Criterion (REP-14/15)
<b>5 – EMERGENCY NOTIFICATION AND PUBLIC INFORMATION</b>		10, 11, 12, 13
<b>5.a – Activation of the Prompt Alert and Notification System</b>		
<p><b>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 offsite 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 FEMA REP guidance.</p>	10 CFR Part 50, Appendix E.IV.D; E.5, 6,7	10.1
<b>5.a.2: [RESERVED]</b>		
<p><b>5.a.3:</b> Activities associated with FEMA approved exception areas (where applicable) are completed within 45 minutes of the initial decision by authorized offsite emergency officials to notify the public of an emergency situation. Backup alert and notification of the public is completed within 45 minutes following the detection by the ORO of a failure of the primary alert and notification system.</p>	Appendix 3: B.2.c; E.6	10.2, 10.3
<b>5.b – Emergency Information and Instructions for the Public and the Media</b>		
<p><b>5.b.1:</b> OROs provide accurate emergency information and instructions to the public and the news media in a timely manner.</p>	E.5,7; G.3.a; G.4.c	11.1, 11.2 , 11.3; 12.1, 12.2; 13.1, 13.2

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EVALUATION AREA / Sub-element / Criterion	NUREG Ref.	Obj. & Criterion (REP-14/15)
<b>6 – SUPPORT OPERATION/FACILITIES</b>		
<b>6.a – Monitoring and Decontamination of Evacuees and Emergency Workers and Registration of Evacuees</b>		
6.a.1: The reception center/emergency worker facility has appropriate space, adequate resources, and trained personnel to provide monitoring, decontamination, and registration of evacuees and/or emergency workers.	J.10.h; J.12; K.5.a	18.1, 18.2, 18.3, 18.4, 18.5; 22.1, 22.2
<b>6.b – Monitoring and Decontamination of Emergency Worker Equipment</b>		
6.b.1: The facility/ORO has adequate procedures and resources for the accomplishment of monitoring and decontamination of emergency worker equipment, including vehicles.	K.5.b	22.1; 22.3
<b>6.c – Temporary Care of Evacuees</b>		
6.c.1: Managers of congregate care facilities demonstrate that the centers have resources to provide services and accommodations consistent with American Red Cross planning guidelines. (Found in MASS CARE-Preparedness Operations, ARC 3031) Managers demonstrate the procedures to assure that evacuees have been monitored for contamination and have been decontaminated as appropriate prior to entering congregate care facilities.	J.10.h; J.12	19.1; 19.2
<b>6.d – Transportation and Treatment of Contaminated Injured Individuals</b>		
6.d.1: The facility/ORO has the appropriate space, adequate resources, and trained personnel to provide transport, monitoring, decontamination, and medical services to contaminated injured individuals.	F.2; H.10; K.5.a,b; L.1; L.4	20.1, 20.2, 20.3, 20.4, 20.5; 21.1, 21.2, 21.3, 21.4