

**DRAFT INTERIM USE
REP EXERCISE PREPARATION GUIDE
(For Evaluator Pre-exercise Use Only – Do Not Submit!)**

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.