

Rad Resilient City

A preparedness checklist to save lives after a nuclear detonation

PHASED IMPLEMENTATION PLAN

Overview

Phase 1	Broad Community Support	Action 1	Action 7: Integrate, test, and conduct training in all elements of a comprehensive fallout preparedness system
Phase 2	Educated and Prepared Population	Actions 2 and 3	
Phase 3	Means to Issue Geographically Specific Warnings	Actions 4 and 5	
Phase 4	Ability to Execute a Mass, Phased Evacuation	Action 6	

PHASE 1: Broad Community Support

▣ ACTION 1.0—Obtain broad community backing for nuclear incident preparedness.

TASKS

- 1.1 Generate leadership to overcome apathy or resistance to preparedness.
- 1.2 Build a fallout preparedness coalition that reflects the entire community.
- 1.3 Incorporate private and public radiation professionals into emergency planning.
- 1.4 Recruit community-serving nonprofits to teach vulnerable, marginalized groups.
- 1.5 Map a nuclear detonation's effects against the region's terrain and inhabitants.

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Phase 2: Educated and Prepared Population

▣ ACTION 2.0—Conduct an ongoing public education program.

- TASKS**
- 2.1 Designate a lead agency to coordinate the program across agencies and region.
 - 2.2 Use nontechnical language to deliver messages on protective actions.
 - 2.3 Disseminate information using multiple modalities and multiple sources.
 - 2.4 Develop a neighborhood or social network–driven training and education program.
 - 2.5 Periodically assess progress toward preparedness outcomes.

▣ ACTION 3.0—Enable building owners and operators to assess shelters and teach others.

- TASKS**
- 3.1 Disseminate a shelter rating guide to commercial building managers.
 - 3.2 Rate public buildings in terms of their performance as fallout shelters.
 - 3.3 Partner with schools to expand their emergency plans to include fallout protection.
 - 3.4 Distribute shelter rating guide to homeowner and tenant associations.

Phase 3: Means to Issue Geographically Specific Messages

▣ ACTION 4.0—Strengthen the ability to deliver actionable public warnings post-incident.

- TASKS**
- 4.1 Develop pre-scripted, pre-vetted, and scientifically based fallout warning messages.
 - 4.2 Address organizational issues related to effective warning dissemination.
 - 4.3 Devise low-tech, redundant means for issuing public warnings.
 - 4.4 Plan to establish hotlines for an acute demand for health-related information.
 - 4.5 Monitor peer-to-peer communications to enhance situational awareness.

▣ ACTION 5.0—Establish a rapid system for mapping the dangerous fallout zone.

- TASKS**
- 5.1 Develop prior relationships with federal partners.
 - 5.2 Conduct a regional inventory of monitoring staff and equipment.
 - 5.3 Develop plans for synthesizing diverse data scattered across the region.
 - 5.4 Plan for the prompt release of plume maps via broadcast media and social media.
 - 5.5 Pre-position a network of automated radiation monitors.

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Phase 4: Ability to Execute a Mass, Phased Evacuation

▣ ACTION 6.o— Plan for a large-scale, phased evacuation.

- TASKS**
- 6.1 Form regional partnerships and execute mutual aid agreements.
 - 6.2 Map out buildings and neighborhoods according to shelter quality.
 - 6.3 Predesignate the criteria against which areas will be prioritized for evacuation.
 - 6.4 Consider how pre-established evacuation routes may have to be adapted.
 - 6.5 Craft pre-incident education materials that share evacuation plans.
 - 6.6 Prepare scientifically based templates for evacuation messaging.
 - 6.7 Anticipate a portion of residents who evacuate independent of instruction.
 - 6.8 Plan to establish monitoring and decontamination centers.

ACTION 7 [Applies to *all* phases]

▣ Integrate, test, and conduct training in all elements of a comprehensive fallout preparedness system.

- TASKS**
- 7.1 Regularly conduct training programs for emergency personnel, volunteers, and key stakeholders in the community.
 - 7.2 Exercise, test, and drill the above elements of fallout preparedness and public warning systems and include the community in these exercises.
 - 7.3 Routinely review, revise, and maintain current fallout protections plans.