

Radiation Emergency Exercise Resource Guide



BACKGROUND

Radiological emergencies can vary by size and type and result from transportation accidents, nuclear power plant accidents, improvised nuclear devices (INDs), and radiological dispersal devices (RDDs), also known as dirty bombs). No matter the origin or size of the radiation emergency, it is important that local health departments have plans in place that are ready to deploy in the case of a radiation emergency. The objective of this resource guide is to combine the knowledge and ideas from the NACCHO Radiation Workgroup into a brief, quick-access document that will provide valuable direct links and resources that can help local health departments and emergency managers plan and enhance radiation preparedness exercises.

Templates

Protective Action Questions & Answers for Radiological and Nuclear Emergencies: A Companion Document to the U.S. Environmental Protection Agency (EPA) Protective Action Guide (PAG) Manual

This manual includes pre-scripted radiation emergency public safety messages intended to help emergency planners prepare public communications prior to and during a radiological emergency. <http://bit.ly/2GV1C8f>

Protective Action Area Map Templates (EPA)

Templates for state, local, and tribal governments that need to provide evacuation, go inside, food, and/or drinking water guidance quickly to a population in a specific geographical area. <http://bit.ly/2FeChZG> (Word document)

NACCHO Radiological Sheltering Tabletop Toolkit

This toolkit was designed to help local health department planners design, conduct, and evaluate a discussion-based exercise examining the considerations needed to stand-up a public shelter for displaced persons following a radiation event. <http://bit.ly/2t6qzLN>

FEMA Preparedness Toolkit – Homeland Security Exercise Evaluation Program Policy and Guidance

This toolkit provides templates to help emergency planners with exercise design, implementation, and evaluation. <http://bit.ly/2zxEbSA>

Community Reception Center Drill Toolkit (CDC)

The Community Reception Center (CRC) Drill toolkit provides guidance and templates that any jurisdiction can use to plan an operational CRC exercise. <http://bit.ly/2oxLjr4>

Community Reception Center Exercise Toolkit - Timing and Technology Supplement

This supplemental toolkit provides guidance and templates that any jurisdiction can adapt to exercise the full range of CRC operations, including the use of electronic systems such as the CRC eTool and RadResponder. The drill toolkit also provides additional information for the exercising jurisdiction to capture timing data as a means to estimate hourly CRC throughput. <https://bit.ly/2DfEKm4>

RITN Tabletop Exercise

This tabletop exercise document presents a scenario that would likely involve the Radiation Injury Treatment Network (RITN). The intent of this exercise is to stimulate communication through a low-stress discussion of the scenario with your staff and critical partners.

<https://bit.ly/2Au5rAB>

Guidance Documents

GENERAL RADIATION EMERGENCY

Communicating Radiation Risks: Crisis Communications for Emergency Responders (EPA)

This guide acts as a resource for emergency responders and federal, state, and local officials communicating with the public and the media during a radiological crisis.

<http://bit.ly/1I13ITS>

2017 Protective Action Guide Manual (EPA)

The 2017 version of the Protective Action Guide (PAG) Manual was developed by EPA to assist public officials in planning for radiological emergency responses and includes drinking water guidance. <http://bit.ly/2okUeKW>

Manual for First Responders to a Radiological Emergency (International Atomic Energy Agency - IAEA)

This manual provides guidance in the form of action guides, instructions, and data that can be easily adapted and applied to build a basic capability to respond to a radiological emergency. <https://bit.ly/2Rkt709>

Terrorism and Other Public Health Emergencies: A Field Guide for Media – Section 4: Radiation Emergencies (HHS)

This guide provides the most important information that media professionals might need in the field while covering a terrorist attack or other public health emergency. <https://bit.ly/2yAR3FE>

Crisis and Emergency Risk Communication Manual (CDC)

The Crisis and Emergency Risk Communication (CERC) Manual is intended for public health professionals and public information officers who may need to communicate to the public during an emergency. The manual contains tools and annotated resources. <https://bit.ly/2LKJmAj>

Rad Resilient City (Johns Hopkins University, Center for Health Security)

This local planning tool provides cities and their neighbors with a checklist of preparedness actions that could save tens of thousands of lives through adequate protection against radioactive fallout following a nuclear detonation.

<https://bit.ly/2CHfXWP>

NUCLEAR POWER PLANT

Communicating During and After a Nuclear Power Plant Incident (FEMA)

This document provides communications guidance for domestic nuclear power plant (NPP) incidents, including sample text and suggested answers to anticipated public and media questions. <http://bit.ly/2Gadvrh>

IMPROVISED NUCLEAR DEVICE

Improvised Nuclear Device Response & Recovery (FEMA)

This document is a resource for emergency responders and federal, state, and local officials communicating with the public and the media during the immediate aftermath of a nuclear detonation in the U.S. <http://bit.ly/2FcRmec>

Planning Guidance for Response to a Nuclear Detonation (Federal Interagency Committee)

The purpose of this guidance is to provide emergency planners with nuclear detonation specific response recommendations to maximize the preservation of life in the event of an urban nuclear detonation.

<http://bit.ly/2mNp0tU>

RADIOLOGICAL DISPERSAL DEVICE (RDD) / DIRTY BOMB

Handbook for Responding to a Radiological Dispersal Device (CRCPD)

This handbook is a training and reference tool providing guidance in a number of areas for first responders with various degrees of radiological experience.

<https://bit.ly/2urDFny>

Radiological Dispersal Device (RDD) Response Guidance: Planning for the First 100 Minutes (DHS)

This document uses a notional 100-minute timeframe to provide technical recommendations on field operations, public messaging, and response coordination.

<https://bit.ly/2NcqUkQ>



Infographics

GENERAL RADIATION EMERGENCY

Where to go in a Radiation Emergency (CDC)

An infographic detailing where to go for safety in the event of a radiation emergency. <http://bit.ly/2oyWksh>

Decontamination for Yourself and Others (CDC)

An infographic detailing how to decontaminate yourself or someone else. <http://bit.ly/2p1cThf>

How Potassium Iodide Works (CDC)

An infographic detailing what potassium iodide (KI) is, how it works, and when you should or should not take it.

<http://bit.ly/2F2nIZl>

How Prussian Blue Works (CDC)

An infographic detailing what Prussian blue is, how it works, and when you should or should not take it.

<http://bit.ly/2CQOOwX>

Radiation Contamination versus Exposure (CDC)

An infographic detailing the differences between radioactive contamination and exposure. <http://bit.ly/2GRzvXm>

Radiation Emergencies and Pregnancy (CDC)

An infographic detailing how a radiation emergency can affect the pregnant woman and developing child.

<http://bit.ly/2CQOVbR>

Be Prepared for a Nuclear Explosion (FEMA)

An infographic detailing the different types of nuclear explosion and what to do in order to prepare for a nuclear explosion. <https://bit.ly/2ltc4Wu>

NUCLEAR POWER PLANT

Nuclear Power Plant Accidents (CDC)

An infographic detailing the main dangers of a nuclear power plant incident and how you can protect yourself.

<http://bit.ly/2oGCudO>

IMPROVISED NUCLEAR DEVICE

Improvised Nuclear Device (CDC)

An infographic detailing what an improvised nuclear device (IND) is, the main dangers, and how you can protect yourself.

<http://bit.ly/2F2pkCV>

RADIOLOGICAL DISPERSAL DEVICE (RDD) / DIRTY BOMB

Dirty Bomb or Radiological Dispersal Device (CDC)

An infographic detailing what a RDD or "dirty bomb" is and how you can protect yourself. <http://bit.ly/2F1ZwqG>

Training

IS-120.C: An Introduction to Exercises

This course introduces the basics of emergency management exercises. It also builds a foundation for subsequent exercise courses, which provide the specifics of the Homeland Security Exercise and Evaluation Program (HSEEP). <http://bit.ly/2oG5t1i>

IS-130.A: How to Be an Exercise Evaluator

This course introduces the basics of emergency management exercise evaluation and improvement planning.

<http://bit.ly/2F320Vv>

K/L0146: Homeland Security Exercise Evaluation Program - Basic Course

This is a basic-level course that provides a comprehensive overview of exercise design along with practical skill development in accordance with the HSEEP Doctrine.

<http://bit.ly/2F5Qk0d>

Master Exercise Practitioner Program

This is a series of two classroom courses (E0132, E0133) focusing on advanced program management, exercise design, and evaluation practices in each phase of the HSEEP. <http://bit.ly/2oJQaVh>

Counterterrorism Operations Support (CTOS) – Center for Radiological Nuclear Training

This training provides courses to improve the nation's capability to detect unauthorized attempts to import, possess, store, develop, or transport nuclear or radiological material, as well as courses to train emergency personnel to respond to radiological/nuclear weapon of mass destruction (WMD) incidents. <http://bit.ly/2t6llsP>

CDC Radiation Emergency Training and Education

Trainings and tools created by the CDC that can be used during any radiological emergency. <http://bit.ly/2te0Tx1>

Radiological Emergency Response Operations (RERO)

RERO is a five-day course that includes lectures, hands-on training, and team exercises that teach the concepts, equipment, and procedures related to radiological incident response, including a commercial nuclear power facility.

<https://bit.ly/2yCceHr>

Advanced Radiological Incident Operations (ARIO)

Five-day course providing the advanced skills needed to safely respond to and manage incidents involving radiological hazards. <https://bit.ly/2plk1iu>

Additional Resources

- **NACCHO Radiation Toolkit** - <http://bit.ly/2Yvhrea>
- **National Alliance for Radiation Readiness (NARR)** - <https://bit.ly/2zhUMqZ>
- **U.S. Department of Health and Human Services – Radiation Emergency Medical Management (REMM)**
<http://bit.ly/2Yv9g1t>
- **Radiation Response Volunteer Corps (RRVC)** - <https://bit.ly/2zUuMCi>
- **FEMA Radiological Emergency Preparedness Program (REPP)** - <https://bit.ly/2qmn13J>
- **Homeland Security Exercise and Evaluation Program (HSEEP)** - <https://bit.ly/2zly7dE>
- **NMDP Radiation Injury Treatment Network (RITN)** - <https://bit.ly/2AEIjk4>

NACCHO

National Association of County & City Health Officials

The National Connection for Local Public Health

www.naccho.org



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The mission of the National Association of County and City Health Officials (NACCHO) is to be a leader, partner, catalyst, and voice with local health departments.

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