

Environmental Response Technical Assistance Document for *Bacillus anthracis* Intentional Releases

Draft Document Outline

Chapter 1: Purpose & Scope

- a. Purpose: to help protect public health & safety; to provide most current information available; and share national experience.
- b. Scope: Designed specifically for federal OSCs but may also be helpful to first responders, facility managers/owners, and local, state, tribal and territorial government agencies.

Chapter 2: Federal Plans

- a. Will provide an overview of the federal plans that authorize and guide federal responses (National Response Framework (NRF) and National Oil and Hazardous Substances Pollution Contingency Plan (NCP)).

Chapter 3: Federal Agency Roles & Authorities

- a. Will describe the general responsibilities of federal agencies and the resources used in a response

Chapter 4: Overview of a Response

- a. Will provide an overview of Crisis Management response activities
- b. Will provide an overview of Consequence Management restoration and recovery activities

Chapter 5: Initial Response

- a. Will describe activities during the initial or emergency phase of a response to a suspected incident involving anthrax
- b. Will provide a response outline for personnel who discover the potential contamination and for first federal responders on the scene

Chapter 6: Health and Safety Considerations

- a. Will provide an overview of health and safety considerations for workers and other individuals potentially exposed to *B. anthracis*.
- b. Will describe elements of a Health and Safety Plan (HASP).
- c. Will provide information regarding training requirements under OSHA's Hazardous Waste Operations and Emergency Response (HAZWOPER) standard (29 CFR 1910.120).
- d. Will provide an overview of Personal Protective Equipment (PPE), including personnel decontamination.
- e. Will discuss medical program recommendations/requirements for responders, employees, and others who may be exposed.

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Chapter 7: Sampling for *B. anthracis* Spores

- a. This chapter will be consistent with a sampling document presently being developed by a DHS-led multi-agency workgroup. Document is in draft form and not available for public review/comment. CDR Mattorano, USPHS (assigned to USEPA's National Decontamination Team) serves on the DHS-led workgroup as well as the TAD Revision Subcommittee.
- b. This chapter will also be consistent with the outcomes of the Validated Sampling Plan Workgroup that was convened to address GAO concerns regarding sampling & analysis (S&A) for intentional releases of *B. anthracis*.
- c. Will describe sampling strategies for *B. anthracis*.
- d. Will primarily focus on consequence management, characterization and extent of contamination, and decontamination/clearance.
- e. Will provide framework for sampling strategy development to include: sampling plan development, statistical considerations, and overview of detailed sample collection procedures that may be used.
- f. Will provide an overview of advantages and disadvantages of sample analysis techniques, to include: culture, PCR, and data interpretation.

Chapter 8: Cleanup Decision-Making Framework

- a. Will provide discussions for optimizing cleanup and clearance decisions, to include: conduct risk assessment and estimate cleanup goals; verify clearance decision; and clear for reuse and re-occupancy.

Chapter 9: Decontamination

- a. Will provide discussions and overview of remediation process, to include: defining goals, planning, organizing, staging, remediating, and clearance.
- b. Will provide discussions and overview of the considerations in decontamination, to include: selection of decontamination methodologies; development of strategies and priorities; progress tracking; ensuring effective validation and QA; and clearance.

Chapter 10: Collection, Treatment, and Disposal of Wastes

- a. Will emphasize importance of consulting with state and local waste management authorities.
- b. Will describe how to identify types of contaminated wastes, including wastewater.
- c. Will describe electronic waste disposal tools.
- d. Will emphasize and explain the need to notify waste and recycling service providers of potential contamination.
- e. Will describe how to manage wastes that are or may be contaminated.

Chapter 11: Guidelines for Discharging *B. anthracis* Decontamination Wastewater into Publicly Owned Treatment Works (POTWs)

- a. Will provide information and guidelines for safe handling, treatment, and disposal of wastewater generated during decontamination
- b. Will describe procedures and provide examples for treatment of decontamination wastewater

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Appendix A: Quick Reference Guide (QRG) – Anthrax

- a. The latest revision of the National Response Team QRG, developed by the WMD Subcommittee in 2008 is provided as Attachment 1 to this handout. The QRG is a one page outline that provides information federal responders can use in the first hours of the response or can be use as a quick refresher prior to their arriving on-scene. Included are: agent characteristics, release scenarios, human health effects, detection, sampling, decontamination, and waste disposal.

Appendix B: Example PPE Ensembles for Indoor or Highly-Localized Outdoor Contamination

- a. Will provide PPE selection criteria based on site risk assessment.
- b. In each risk zone the guidance on selection of PPE type, contamination containment, and personnel cleanup will be provided.

Appendix C: Decontamination Fact Sheets

- a. Will provide decontamination solution; 1) application methods; 2) toxicity; 3) chemical properties; 4) human health issues and; 5) other information pertaining to ten chemicals and procedures used in *B. anthracis* decontamination.

Appendix D: Hierarchy of Response Plans

- a. Will provide outline and hierarchy of domestic terrorism plans (Organizational Chart).
- b. Will provide synopsis and outline of national level documents, to include: PDD 39 and 62, United States Government Interagency Domestic Terrorism Concept of Operations Plan (CONPLAN).
- c. Will provide synopsis and outline of relevant portions of national consequence management documents, to include: National Response Framework (NRF), Terrorism Incident Annex to NRF, National Contingency Plan (NCP), DoD Directive 3025.1
- d. Crisis management documents: FBI WMD Incident Contingency Plan, Chairman of the Joint Chiefs of Staff CONPLAN 0300/0400.

Appendix E: Research on Inactivation of *B. anthracis* Spores with Aqueous Chlorine

- a. Will provide research data that validates the processes and procedures outlined in Chapter 11