



# *Reopening Public Facilities*

**AFTER A BIOLOGICAL ATTACK**

A Decision Making Framework

NATIONAL RESEARCH COUNCIL  
OF THE NATIONAL ACADEMIES

# Reopening Public Facilities After A Biological Attack A Decision

**M Walker**



## **Reopening Public Facilities After A Biological Attack A Decision:**

**Reopening Public Facilities After a Biological Attack** National Research Council, Division on Earth and Life Studies, Board on Life Sciences, Committee on Standards and Policies for Decontaminating Public Facilities Affected by Exposure to Harmful Biological Agents: How Clean Is Safe?, 2005-08-18 The anthrax attacks in fall 2001 spurred an extensive and costly decontamination effort where many decisions had to be made about which sites required cleanup what method to use how to determine the effectiveness of the cleanup and how clean the building had to be for reoccupation As part of a project funded by the U S Department of Homeland Security DHS and managed by Lawrence Livermore National Laboratory the National Research Council was asked to consider the criteria that must be met for a cleanup to be declared successful allowing the reoccupation of a facility The report finds that efficiently sampling and characterizing a pathogen is critical for choosing the best remediation strategy However there should be no universal standard for deciding when a building is safe to re enter because varying pathogen amounts and characteristics could require different strategies The report offers a flowchart for decision makers that includes questions about the characteristics of the pathogen how far it has spread whether it is transmissible between humans and how long it will survive to pose a threat The report also recommends that a risk assessment approach be adopted as part of a strategy for achieving a socially acceptable standard for cleanup

**Reopening Public Facilities After a Biological Attack** National Research Council, Division on Earth and Life Studies, Board on Life Sciences, Committee on Standards and Policies for Decontaminating Public Facilities Affected by Exposure to Harmful Biological Agents: How Clean Is Safe?, 2005-09-18 The anthrax attacks in fall 2001 spurred an extensive and costly decontamination effort where many decisions had to be made about which sites required cleanup what method to use how to determine the effectiveness of the cleanup and how clean the building had to be for reoccupation As part of a project funded by the U S Department of Homeland Security DHS and managed by Lawrence Livermore National Laboratory the National Research Council was asked to consider the criteria that must be met for a cleanup to be declared successful allowing the reoccupation of a facility The report finds that efficiently sampling and characterizing a pathogen is critical for choosing the best remediation strategy However there should be no universal standard for deciding when a building is safe to re enter because varying pathogen amounts and characteristics could require different strategies The report offers a flowchart for decision makers that includes questions about the characteristics of the pathogen how far it has spread whether it is transmissible between humans and how long it will survive to pose a threat The report also recommends that a risk assessment approach be adopted as part of a strategy for achieving a socially acceptable standard for cleanup

**Reopening Public Facilities After a Biological Attack ,2005      Protecting Building Occupants and Operations from Biological and Chemical Airborne Threats** National Research Council, Division on Earth and Life Studies, Board on Life Sciences, Board on Chemical Sciences and Technology, Committee on Protecting Occupants of DOD Buildings from

Chemical and Biological Release,2007-09-10 Protecting buildings and their occupants from biological and chemical attacks to ensure continuous building operations is seen as an urgent need in the Department of Defense given recent technological advances and the changing threats Toward this end the Department of Defense established the Immune Building Program to develop protective systems to deter biological and chemical attacks on military facilities and minimize the impacts of attacks should they occur At the request of the Defense Threat Reduction Agency the National Research Council convened a committee to provide guiding principles for protecting buildings from airborne biological or chemical threat agents and outline the variables and options to consider in designing building protection systems This report addresses such components of building protection as building design and planning strategies heating ventilating and air conditioning systems filtration threat detection and identification technologies and operational responses It recommends that building protection systems be designed to accommodate changing building conditions new technologies and emerging threats Although the report s focus is on protection of military facilities the guiding principles it offers are applicable to protection of public facilities as well

*WMD Terrorism* Stephen M. Maurer,2009 This collection of essays is a current and comprehensive review of what scientists and scholars know about WMD terrorism and America s options for confronting it Complete with mathematical methods for analyzing terrorist threats and allocating defense resources this multidisciplinary perspective addresses all forms and defenses of WMD and the role of domestic U S politics in shaping defense investments and policies Also identified are multiple instances in which the conventional wisdom is incomplete or misleading

**Lees' Process Safety Essentials** Sam Mannan,2013-11-12 Lees Process Safety Essentials is a single volume digest presenting the critical practical content from Lees Loss Prevention for day to day use and reference It is portable authoritative affordable and accessible ideal for those on the move students and individuals without access to the full three volumes of Lees This book provides a convenient summary of the main content of Lees primarily drawn from the hazard identification assessment and control content of volumes one and two Users can access Essentials for day to day reference on topics including plant location and layout human factors and human error fire explosion and toxic release engineering for sustainable development and much more This handy volume is a valuable reference both for students or early career professionals who may not need the full scope of Lees and for more experienced professionals needing quick convenient access to information Boils down the essence of Lees the process safety encyclopedia trusted worldwide for over 30 years Provides safety professionals with the core information they need to understand the most common safety and loss prevention challenges Covers the latest standards and presents information including recent incidents such as Texas City and Buncefield

**Medical Response to Major Incidents and Disasters** Sten Lennquist,2012-01-03 This book written by members of the core faculty responsible for European courses on Medical Response to Major Incidents MRMI is a practical guide for all medical staff on how to respond to a wide range of disaster scenarios The entire spectrum of knowledge is covered from command and coordination through to the management

of individual casualties Central importance is attached to the key component of decision making by explaining what needs to be done for patients in particular situations and the required order and timing of treatment measures Simplified methods receive due attention as it is often necessary for medical staff to administer primary treatment outside of their own specialty This book will prove an invaluable aid to all who may be involved in the response to major accidents and disasters including medical and nursing students ambulance crew and military personnel as well as medical specialists Food Safety and Food Security John G. Voeller,2014-01-16 Food Safety and Food Security features articles from the Wiley Handbook of Science and Technology for Homeland Security covering topics related to processing and packaging methods to protect food supply against contamination and to mitigate the consequences of contaminated foods It discusses related detection systems as well as decontamination and disposal of contaminated foods Hospital Epidemiology and Infection Control C. Glen Mayhall,2012-02-20 Thoroughly revised and updated for its Fourth Edition this highly acclaimed volume is the most comprehensive reference on hospital epidemiology and infection control Written by over 150 leading experts this new edition examines every type of hospital acquired nosocomial infection and addresses every issue relating to surveillance prevention and control of these infections in patients and in healthcare workers This new edition features new or significantly increased coverage of emerging infectious diseases avian influenza governmental regulation of infection control and payment practices related to hospital acquired infections molecular epidemiology the increasing prevalence of community acquired MRSA in healthcare facilities system wide infection control provisions for healthcare systems hospital infection control issues following natural disasters and antimicrobial stewardship in reducing the development of antimicrobial resistant organisms

**Antimicrobial Resistance and Food Safety** Chin-Yi Chen,Xianghe Yan,Charlene R. Jackson,2015-04-15 Antimicrobial Resistance and Food Safety Methods and Techniques introduces antimicrobial resistant food borne pathogens their surveillance and epidemiology emerging resistance and resistant pathogens This analysis is followed by a systematic presentation of currently applied methodology and technology including advanced technologies for detection intervention and information technologies This reference can be used as a practical guide for scientists food engineers and regulatory personnel as well as students in food safety food microbiology or food science Includes analysis of all major pathogens of concern Provides many case studies and examples of fundamental research findings Presents recent advances in methodologies and analytical software Demonstrates risk assessment using information technologies in foodborne pathogens

**The Role of Law Enforcement in Emergency Management and Homeland Security** Mark R. Landahl,Tonya E. Thornton,2021-09-06 This book examines the role and involvement of law enforcement agencies across the spectrum of homeland security and emergency management Contributions from expert practitioners and academics are organized around the mission areas of mitigation protection prevention preparedness response and recovery Applications of Toxicogenomic Technologies to Predictive Toxicology and Risk Assessment National Research Council,Division on Earth and Life

Studies, Board on Life Sciences, Board on Environmental Studies and Toxicology, Committee on Applications of Toxicogenomic Technologies to Predictive Toxicology, 2007-11-19 The new field of toxicogenomics presents a potentially powerful set of tools to better understand the health effects of exposures to toxicants in the environment At the request of the National Institute of Environmental Health Sciences the National Research Council assembled a committee to identify the benefits of toxicogenomics the challenges to achieving them and potential approaches to overcoming such challenges The report concludes that realizing the potential of toxicogenomics to improve public health decisions will require a concerted effort to generate data make use of existing data and study data in new ways an effort requiring funding interagency coordination and data management strategies

*Radioactivity in the Environment* Vlado Valkovic, 2019-04-17 Radioactivity in the Environment Second Edition presents the facts on the presence of both natural and manmade radionuclides in the environment Sources of ionizing radiation that can lead to human exposure are discussed including natural sources nuclear explosions nuclear power generation the use of radiation in medical industrial and research purposes and radiation emitting consumer products In this thoroughly updated edition users will find new sections on developments in radioactive nuclides in nature and technologically modified exposure to natural radiation new threats by terrorist individuals groups and countries changes to the status of nuclear power in the world and more Additional new sections cover radioisotopes in geo prospecting and the oil industry the use of radiation in environmental protection detector types and detectors used for personal dosimetry the Dirty Bomb the Fukushima accident and North Korea testing sites and nuclear capabilities Includes details of analytical laboratory procedures for radioactivity measurement in different samples Features a new chapter on decontamination after radiation exposure Expands the discussion on nuclear fusion to cover ITER and other installations

**Lees' Loss Prevention in the Process Industries** Frank Lees, 2012-11-05 Safety in the process industries is critical for those who work with chemicals and hazardous substances or processes The field of loss prevention is and continues to be of supreme importance to countless companies municipalities and governments around the world and Lees is a detailed reference to defending against hazards Recognized as the standard work for chemical and process engineering safety professionals it provides the most complete collection of information on the theory practice design elements equipment regulations and laws covering the field of process safety An entire library of alternative books and cross referencing systems would be needed to replace or improve upon it but everything of importance to safety professionals engineers and managers can be found in this all encompassing three volume reference instead The process safety encyclopedia trusted worldwide for over 30 years Now available in print and online to aid searchability and portability Over 3 600 print pages cover the full scope of process safety and loss prevention compiling theory practice standards legislation case studies and lessons learned in one resource as opposed to multiple sources

Under the Dome Alan M. Hantman, 2024-05-01 An inside account of politics crisis and architecture on Capitol Hill The domed US Capitol Building is recognized around the world as America's most iconic symbol

the forum for representative democracy and the physical stage for the transfer of executive power As the United States grew in size and complexity the Capitol was built rebuilt enlarged and extended many times under the direction of the few who have served as Architect of the Capitol This official heads the agency dedicated to preserving and upgrading this magnificent structure and all the buildings and grounds of Capitol Hill In Under the Dome Alan Hantman the Architect of the Capitol from 1997 to 2007 provides a personal account of how the Capitol works as a physical space who runs it how and why decisions are made about the security of the Capitol and the people who work there and how politicians think about the Capitol Building He also recounts security threats to the Capitol during his tenure including the 1998 shooting murder of two police officers and the Capitol evacuation on 9 11 as a hijacked airplane approached that underscore one of his greatest challenges as Architect The tension between securing the Capitol and opening it to the public drove the design and construction under his direction of the Capitol Visitor Center the largest expansion of the Capitol in its history increasing its size by 70%

**Defense Against Biological Attacks** Sunit K. Singh, Jens H. Kuhn, 2019-05-02 This second volume of a two volume set focuses on specific pathogens and their mechanisms of pathogenesis as well as diagnostics therapeutics and various strategies in the event of biological attacks This multidisciplinary book appeals to readers from various fields including biodefense biosafety biosecurity virology neurology molecular biology and genetic engineering as well as infectious disease specialists Further the work is of interest to basic science and applied science research scholars and experts working in the area of high consequence or select agent virology Department of Homeland Security Appropriations for Fiscal Year 2007: Justifications (p. 1425-2933) United States. Congress. Senate. Committee on Appropriations. Subcommittee on the Department of Homeland Security, 2006 **Department of Homeland Security Appropriations for Fiscal Year ...** United States. Congress. Senate. Committee on Appropriations. Subcommittee on the Department of Homeland Security, 2006 *Department of Homeland Security Appropriations for 2007* United States. Congress. House. Committee on Appropriations. Subcommittee on Homeland Security, 2006 Wiley Handbook of Science and Technology for Homeland Security, 4 Volume Set John G. Voeller, 2010-04-12 The Wiley Handbook of Science and Technology for Homeland Security is an essential and timely collection of resources designed to support the effective communication of homeland security research across all disciplines and institutional boundaries Truly a unique work this 4 volume set focuses on the science behind safety security and recovery from both man made and natural disasters has a broad scope and international focus The Handbook Educates researchers in the critical needs of the homeland security and intelligence communities and the potential contributions of their own disciplines Emphasizes the role of fundamental science in creating novel technological solutions Details the international dimensions of homeland security and counterterrorism research Provides guidance on technology diffusion from the laboratory to the field Supports cross disciplinary dialogue in this field between operational R D and consumer communities

## **Reopening Public Facilities After A Biological Attack A Decision** Book Review: Unveiling the Power of Words

In a global driven by information and connectivity, the energy of words has be much more evident than ever. They have the ability to inspire, provoke, and ignite change. Such may be the essence of the book **Reopening Public Facilities After A Biological Attack A Decision**, a literary masterpiece that delves deep to the significance of words and their impact on our lives. Written by a renowned author, this captivating work takes readers on a transformative journey, unraveling the secrets and potential behind every word. In this review, we will explore the book is key themes, examine its writing style, and analyze its overall effect on readers.

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