



# MONITORING AT CHEMICAL AGENT DISPOSAL FACILITIES

NATIONAL RESEARCH COUNCIL  
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# Monitoring At Chemical Agent Disposal Facilities

**Michael R Greenberg**



## **Monitoring At Chemical Agent Disposal Facilities:**

**Monitoring at Chemical Agent Disposal Facilities** National Research Council, Division on Engineering and Physical Sciences, Board on Army Science and Technology, Committee on Monitoring at Chemical Agent Disposal Facilities, 2005-11-13 Under the direction of the U S Army's Chemical Materials Agency CMA and mandated by Congress the nation is destroying its chemical weapons stockpile Over the past several years the Army has requested several studies from the NRC to assist with the stockpile destruction This study was requested to advise the CMA about the status of analytical instrumentation technology and systems suitable for monitoring airborne chemical warfare agents at chemical weapons disposal and storage facilities The report presents an assessment of current monitoring systems used for airborne agent detection at CMA facilities and of the applicability and availability of innovative new technologies It also provides a review of how new regulatory requirements would affect the CMA's current agent monitoring procedures and whether new measurement technologies are available and could be effectively incorporated into the CMA's overall chemical agent monitoring strategies

**Occupational Health and Workplace Monitoring at Chemical Agent Disposal Facilities** National Research Council, Division on Engineering and Physical Sciences, Board on Army Science and Technology, Committee on Review and Evaluation of the Army Chemical Stockpile Disposal Program, 2001-01-01 In keeping with a congressional mandate Public Law 104 484 and the Chemical Weapons Convention the United States is currently destroying its chemical weapons stockpile The Army must ensure that the chemical demilitarization workforce is protected from the risks of exposure to hazardous chemicals during disposal operations and during and after facility closure Good industrial practices developed in the chemical and nuclear energy industries and other operations that involve the processing of hazardous materials include workplace monitoring of hazardous species and a systematic occupational health program for monitoring workers activities and health In this report the National Research Council Committee on Review and Evaluation of the Army Chemical Stockpile Disposal Program examines the methods and systems used at JACADS and TOCDF the two operational facilities to monitor the concentrations of airborne and condensed phase chemical agents agent breakdown products and other substances of concern The committee also reviews the occupational health programs at these sites including their industrial hygiene and occupational medicine components Finally it evaluates the nature quality and utility of records of workplace chemical monitoring and occupational health programs

*Monitoring at Chemical Agent Disposal Facilities* Committee on Monitoring at Chemical Agent Disposal Facilities, Board on Army Science and Technology, Division on Engineering and Physical Sciences, National Research Council, 2005-10-13 Under the direction of the U S Army's Chemical Materials Agency CMA and mandated by Congress the nation is destroying its chemical weapons stockpile Over the past several years the Army has requested several studies from the NRC to assist with the stockpile destruction This study was requested to advise the CMA about the status of analytical instrumentation technology and systems suitable for monitoring airborne chemical warfare

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**Occupational Health and Workplace Monitoring at Chemical Agent Disposal Facilities**, 2001 Assessment of Agent Monitoring Strategies for the Blue Grass and Pueblo Chemical Agent Destruction Pilot Plants National Research Council, Division on Engineering and Physical Sciences, Board on Army Science and Technology, Committee on Assessment of Agent Monitoring Strategies for the Blue Grass and Pueblo Chemical Agent Destruction Pilot Plants, 2012-09-21 January 2012 saw the completion of the U S Army's Chemical Materials Agency's CMA's task to destroy 90 percent of the nation's stockpile of chemical weapons CMA completed destruction of the chemical agents and associated weapons deployed overseas which were transported to Johnston Atoll southwest of Hawaii and demilitarized there The remaining 10 percent of the nation's chemical weapons stockpile is stored at two continental U S depots in Lexington Kentucky and Pueblo Colorado Their destruction has been assigned to a separate U S Army organization the Assembled Chemical Weapons Alternatives ACWA Element ACWA is currently constructing the last two chemical weapons disposal facilities the Pueblo and Blue Grass Chemical Agent Destruction Pilot Plants denoted PCAPP and BGCAPP with weapons destruction activities scheduled to start in 2015 and 2020 respectively ACWA is charged with destroying the mustard agent stockpile at Pueblo and the nerve and mustard agent stockpile at Blue Grass without using the multiple incinerators and furnaces used at the five CMA demilitarization plants that dealt with assembled chemical weapons munitions containing both chemical agents and explosive propulsive components The two ACWA demilitarization facilities are congressionally mandated to employ noncombustion based chemical neutralization processes to destroy chemical agents In order to safely operate its disposal plants CMA developed methods and procedures to monitor chemical agent contamination of both secondary waste materials and plant structural components ACWA currently plans to adopt these methods and procedures for use at these facilities The Assessment of Agent Monitoring Strategies for the Blue Grass and Pueblo Chemical Agent Destruction Pilot Plants report also develops and describes a half dozen scenarios involving prospective ACWA secondary waste characterization process equipment maintenance and changeover activities and closure agent decontamination challenges where direct real time agent contamination measurements on surfaces or in porous bulk materials might allow more efficient and possibly safer operations if suitable analytical technology is available and affordable

Assessment of the Continuing Operability of Chemical Agent Disposal Facilities and Equipment National Research Council, Division on Engineering and Physical Sciences, Board on Army Science and Technology, Committee on Continuing Operability of Chemical Agent Disposal Facilities and Equipment, 2007-02-08 The U S Army's Chemical Materials Agency

CMA currently oversees contracts for the operation of chemical agent stockpile incineration facilities at four disposal sites. Because the period of time required to dispose of these chemical agents has grown beyond that originally planned, the Army is becoming concerned about the possibility of growing operational problems as the processing equipment ages. To help address these concerns, the CMA requested the NRC to assess whether current policies and practices will be able to adequately anticipate and address facility obsolescence issues. This report presents a review of potential infrastructure and equipment weaknesses given that the facilities are being operated well beyond their original design lifetime, an assessment of the Army's current and evolving obsolescence management programs, and offers recommendations about how the programs may be improved and strengthened to permit safe and expeditious completion of agent stockpile destruction and facility closure.

**Evaluation of Chemical Events at Army Chemical Agent Disposal Facilities** National Research Council, Division on Engineering and Physical Sciences, Board on Army Science and Technology, Committee on Evaluation of Chemical Events at Army Chemical Agent Disposal Facilities, 2002-12-25. For over a decade, the Army has been carrying out a program aimed at the destruction of accumulated chemical weapons stored at several sites. While destruction by incineration has been successful, several incidents called chemical events occurred during the disposal process or decontamination activities that raised some public concerns about the safety of operations of third-generation incineration facilities. As a result, the Congress asked the NRC to investigate whether the incidents provide information useful to help ensure safe operation of the future sites. This book presents an analysis of causes of and responses to past chemical events, implications of such events for ongoing and future demilitarization activities, and recommendations for preparing for future events. **Department of Defense Appropriations for Fiscal Year 2000** United States Congress, Senate, Committee on Appropriations.

Subcommittee on Defense, 1999. *Destruction of Chemical Munitions at Blue Grass Army Depot*, 2002. **Review of Systemization of the Tooele Chemical Agent Disposal Facility** National Research Council, Division on Engineering and Physical Sciences, Commission on Engineering and Technical Systems, Committee on Review and Evaluation of the Army Chemical Stockpile Disposal Program, 1996-04-19. In 1993, at Tooele Army Depot, Utah, the Army completed construction of the Tooele Chemical Agent Disposal Facility (TOCDF), the first complete facility for destruction of lethal unitary chemical agents and munitions to be built in the continental United States. The TOCDF will employ the Army's baseline incineration system to destroy the depot's increment of the nation's aging unitary chemical stockpile. This book assesses Army changes and improvements to the TOCDF in response to recommendations contained in earlier reports of the committee. It assesses aspects of the facility's readiness for safe agent handling and destruction operations, its agent monitoring system, and its site-specific risk assessment. **Journal of the House of Representatives of the United States** United States Congress, House, 2003. Some vols include supplemental journals of such proceedings of the sessions as during the time they were depending were ordered to be kept secret and respecting which the injunction of secrecy was afterwards taken off by the

order of the House      **National Defense Authorization Act For Fiscal Year 2004** ,      **National Defense Authorization Act for fiscal year 2004** United States. Congress,2003      Explaining Risk Analysis Michael R Greenberg,2016-09-13 Risk analysis is not a narrowly defined set of applications Rather it is widely used to assess and manage a plethora of hazards that threaten dire implications However too few people actually understand what risk analysis can help us accomplish and even among experts knowledge is often limited to one or two applications Explaining Risk Analysis frames risk analysis as a holistic planning process aimed at making better risk informed decisions and emphasizing the connections between the parts This framework requires an understanding of basic terms including explanations of why there is no universal agreement about what risk means much less risk assessment risk management and risk analysis Drawing on a wide range of case studies the book illustrates the ways in which risk analysis can help lead to better decisions in a variety of scenarios including the destruction of chemical weapons management of nuclear waste and the response to passenger rail threats The book demonstrates how the risk analysis process and the data models and processes used in risk analysis will clarify rather than obfuscate decision makers options This book will be of great interest to students and scholars of risk assessment risk management public health environmental science environmental economics and environmental psychology      **Appropriations, Budget Estimates, Etc** United States. Congress,2003      *Senate Document* ,2003

Smoke on the Water Dario Fazzi,2023-10-31 The U S government military and industry once saw ocean incineration as the safest and most efficient way to dispose of hazardous chemical waste Beginning in the late 1960s toxic chemicals such as PCBs and other harmful industrial byproducts were taken out to sea to be destroyed in specially designed ships equipped with high temperature combustion chambers and smokestacks But public outcry arose after the environmental and health risks of ocean incineration were exposed and the practice was banned in the early 1990s Smoke on the Water traces the rise and fall of ocean incineration showing how a transnational environmental movement tested the limits of U S political and economic power Dario Fazzi examines the anti ocean incineration movement that emerged on both sides of the Atlantic arguing that it succeeded by merging local advocacy with international mobilization He emphasizes the role played at the grassroots level by women migrant workers and other underrepresented groups who were at greatest risk Environmental groups for their part gathered and shared evidence about the harms of at sea incineration building scientific consensus and influencing international debates Smoke on the Water tells the compelling story of a campaign against environmental degradation in which people from marginalized communities took on the might of the U S military industrial complex It offers new insights into the transnational dimensions of environmental regulation the significance of nonstate actors in international history and the making of environmental justice movements      The Environmental Impact Statement After Two Generations Michael Greenberg,2013-06-17 This book is about a subject that Michael Greenberg has worked on and lived with for almost forty years He was brought up in the south Bronx at a time when his neighborhood suffered from terrible air

and noise pollution and domestic waste went untreated into the Hudson River For him the National Environmental Policy Act NEPA was a blessing It included an ethical position about the environment and the law required some level of accountability in the form of an environmental impact statement or EIS After forty years of thinking about and working with NEPA and the EIS process Greenberg decided to conduct his own evaluation from the perspective of a person trained in science who focuses on environmental and environmental health policies This book of carefully chosen real case studies goes beyond the familiar checklists of what to do and shows students and practitioners alike what really happens during the creation and implementation of an EIS

**Remediation of Buried Chemical Warfare Materiel** National Research Council, Division on Engineering and Physical Sciences, Board on Army Science and Technology, Committee on Review of the Conduct of Operations for Remediation of Recovered Chemical Warfare Materiel from Burial Sites, 2012-08-21 As the result of disposal practices from the early to mid twentieth century approximately 250 sites in 40 states the District of Columbia and 3 territories are known or suspected to have buried chemical warfare materiel CWM Much of this CWM is likely to occur in the form of small finds that necessitate the continuation of the Army's capability to transport treatment systems to disposal locations for destruction Of greatest concern for the future are sites in residential areas and large sites on legacy military installations The Army mission regarding the remediation of recovered chemical warfare materiel RCWM is turning into a program much larger than the existing munition and hazardous substance cleanup programs The Army asked the Nation Research Council NRC to examine this evolving mission in part because this change is significant and becoming even more prominent as the stockpile destruction is nearing completion One focus in this report is the current and future status of the Non Stockpile Chemical Material Project NSCMP which now plays a central role in the remediation of recovered chemical warfare materiel and which reports to the Chemical Materials Agency Remediation of Buried Chemical Warfare Materiel also reviews current supporting technologies for cleanup of CWM sites and surveys organizations involved with remediation of suspected CWM disposal sites to determine current practices and coordination In this report potential deficiencies in operational areas based on the review of current supporting technologies for cleanup of CWM sites and develop options for targeted research and development efforts to mitigate potential problem areas are identified

Department of Defense  
Chemical Agents and Munitions Destruction Program United States. Congress. House. Committee on Armed Services. Subcommittee on Military Procurement, 2001

## Reviewing **Monitoring At Chemical Agent Disposal Facilities**: Unlocking the Spellbinding Force of Linguistics

In a fast-paced world fueled by information and interconnectivity, the spellbinding force of linguistics has acquired newfound prominence. Its capacity to evoke emotions, stimulate contemplation, and stimulate metamorphosis is actually astonishing. Within the pages of "**Monitoring At Chemical Agent Disposal Facilities**," an enthralling opus penned by a very acclaimed wordsmith, readers embark on an immersive expedition to unravel the intricate significance of language and its indelible imprint on our lives. Throughout this assessment, we shall delve in to the book is central motifs, appraise its distinctive narrative style, and gauge its overarching influence on the minds of its readers.

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