

# EVALUATION OF CHEMICAL EVENTS at Army Chemical Agent Disposal Facilities



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# Evaluation Of Chemical Events At Army Chemical Agent Disposal Facilities Paperback

**National Research Council, Division on  
Engineering and Physical  
Sciences, Commission on Engineering  
and Technical Systems, Panel on  
Review and Evaluation of Alternative  
Chemical Disposal Technologies**

## **Evaluation Of Chemical Events At Army Chemical Agent Disposal Facilities Paperback:**

**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

**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 three 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

*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, 1999-11-24 This report reviews the status of the U S Army Chemical Stockpile Disposal Program CSDP operations at Tooele Utah with respect to previous recommendations and observations made by the National Research Council NRC Committee on Review and Evaluation of the Army Chemical Stockpile Disposal Program Stockpile Committee The committee recognizes actions that have satisfied recommendations identifies recommendations that require further action and provides additional recommendations for improving the overall CSDP performance at the Tooele Chemical Agent Disposal Facility TOCDF Tooele Utah and other sites

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 National 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

**Review and Evaluation of Alternative Chemical Disposal Technologies** National Research

Council, Division on Engineering and Physical Sciences, Commission on Engineering and Technical Systems, Panel on Review and Evaluation of Alternative Chemical Disposal Technologies, 1996-11-15 In 1994 the National Research Council published Recommendations for the Disposal of Chemical Agents and Munitions which assessed the status of various alternative destruction technologies in comparison to the Army's baseline incineration system The volume's main finding was that no alternative technology was preferable to incineration but that work should continue on the neutralization technologies under Army consideration In light of the fact that alternative technologies have evolved since the 1994 study this new volume evaluates five Army chosen alternatives to the baseline incineration system for the disposal of the bulk nerve and mustard agent stored in ton containers at Army sites located in Newport Indiana and Aberdeen Maryland respectively The committee assessed each technology by conducting site visits to the locations of the technology proponent companies and by meeting with state regulators and citizens of the affected areas This volume makes recommendations to the Army on which if any of the five technologies has reached a level of maturity appropriate for consideration for pilot scale testing at the two affected sites

**Review of International Technologies for Destruction of Recovered Chemical Warfare Materiel** National Research Council, Division on Engineering and Physical Sciences, Board on Army Science and Technology, Committee on Review and Evaluation of International Technologies for the Destruction of Non-Stockpile Chemical Materiel, 2006-12-02 The Chemical Weapons Convention requires among other things that the signatories to the convention which includes the United States destroy by April 29 2007 or as soon possible thereafter any chemical warfare materiel that has been recovered from sites where it has been buried once discovered For several years the United States and several other countries have been

developing and using technologies to dispose of this non stockpile materiel To determine whether international efforts have resulted in technologies that would benefit the U S program the U S Army asked the NRC to evaluate and compare such technologies to those now used by the United States This book presents a discussion of factors used in the evaluations summaries of evaluations of several promising international technologies for processing munitions and for agent only processing and summaries of other technologies that are less likely to be of benefit to the U S program at this time

*Review of the Army Non-Stockpile Chemical Materiel Disposal Program* National Research Council, Division on Engineering and Physical Sciences, Commission on Engineering and Technical Systems, Board on Army Science and Technology, Committee on Review and Evaluation of the Army Non-Stockpile Chemical Materiel Disposal Program, 2000-01-03 This study is a review and evaluation of the U S Army s Report to Congress on Alternative Approaches for the Treatment and Disposal of Chemical Agent Identification Sets CAIS CAIS are test kits that were used to train soldiers from 1928 to 1969 in defensive responses to a chemical attack They contain samples of chemicals that had been or might have been used by opponents as chemical warfare agents The Army s baseline approach for treating and disposing of CAIS has been to develop a mobile treatment system called the Rapid Response System RRS which can be carried by several large over the road trailers

**New and Forthcoming Books** National Academy Press (U.S.), 1993 *Review and Evaluation of Alternative Technologies for Demilitarization of Assembled Chemical Weapons* National Research Council, Division on Engineering and Physical Sciences, Commission on Engineering and Technical Systems, Committee on Review and Evaluation of Alternative Technologies for Demilitarization of Assembled Chemical Weapons, 1999-12-24 This report examines seven disposal technologies being considered by the U S government as alternative methods to the process of incineration for destroying mortars rockets land mines and other weapons that contain chemical warfare agents such as mustard gas These weapons are considered especially dangerous because they contain both chemical warfare agent and explosive materials in an assembled package that must be disassembled for destruction The study identifies the strengths and weaknesses and advantages and disadvantages of each technology and assesses their potential for full scale implementation Impact of Revised Airborne

Exposure Limits on Non-Stockpile Chemical Materiel Program Activities National Research Council, Division on Engineering and Physical Sciences, Board on Army Science and Technology, Committee on Review and Assessment of the Army Non-Stockpile Chemical Materiel Demilitarization Program: Workplace Monitoring, 2005-05-04 The U S Army s Non Stockpile Chemical Materiel program is responsible for dismantling former chemical agent production facilities and destroying recovered chemical materiel In response to congressional requirements the Center for Disease Control CDC in 2003 recommended new airborne exposure limits AELs to protect workforce and public health during operations to destroy this materiel To assist in meeting these recommended limits the U S Army asked the NRC for a review of its implementation plans for destruction of production facilities at the Newport Chemical Depot and the operation of two types of mobile destruction

systems This report presents the results of that review It provides recommendations on analytical methods on airborne containment monitoring on operational procedures on the applicability of the Resource Conservation and Recovery Act and on involvement of workers and the public in implementation of the new AELs *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

**Analysis of Engineering Design Studies for Demilitarization of Assembled Chemical Weapons at Pueblo Chemical Depot** National Research Council,Division on Engineering and Physical Sciences,Board on Army Science and Technology,Committee on Review and Evaluation of Alternative Technologies for Demilitarization of Assembled Chemical Weapons: Phase II,2001-09-27 The Program Manager for Assembled Chemical Weapons Assessment PMACWA of the Department of Defense DOD requested the National Research Council NRC to assess the engineering design studies EDSs developed by Parsons Honeywell and General Atomics for a chemical demilitarization facility to completely dispose of the assembled chemical weapons at the Pueblo Chemical Depot in Pueblo Colorado To accomplish the task the NRC formed the Committee on Review and Evaluation of Alternative Technologies for Demilitarization of Assembled Chemical Weapons Phase II ACW II Committee This report presents the results of the committee s scientific and technical assessment which will assist the Office of the Secretary of Defense in selecting the technology package for destroying the chemical munitions at Pueblo The committee evaluated the engineering design packages proposed by the technology providers and the associated experimental studies that were performed to validate unproven unit operations A significant part of the testing program involved expanding the technology base for the hydrolysis of energetic materials associated with assembled weapons This process was a concern expressed by the Committee on Review and Evaluation of Alternative Technologies for

Demilitarization of Assembled Chemical Weapons ACW I Committee in its original report in 1999 NRC 1999 The present study took place as the experimental studies were in progress In some cases tests for some of the supporting unit operations were not completed in time for the committee to incorporate results into its evaluation In those cases the committee identified and discussed potential problem areas in these operations Based on its expertise and its aggressive data gathering activities the committee was able to conduct a comprehensive review of the test data that had been completed for the overall system design This report summarizes the study

**Review of the U.S. Army's Health Risk Assessments for Oral Exposure to Six Chemical-Warfare Agents** National Research Council, Division on Earth and Life Studies, Board on Environmental Studies and Toxicology, Subcommittee on Chronic Reference Doses for Selected Chemical Warfare Agents, 1999-10-28

**Systems and Technologies for the Treatment of Non-Stockpile Chemical Warfare Materiel** National Research Council, Division on Engineering and Physical Sciences, Board on Army Science and Technology, Committee on Review and Evaluation of the Army Non-Stockpile Chemical Materiel Disposal Program, 2002-08-01 The main approach adopted by the U S Army for destruction of all declared chemical weapon materiel CWM is incineration There has been considerable public opposition to this approach however and the Army is developing a mix of fixed site and mobile treatment technologies to dispose of non stockpile CWM To assist in this effort the Army requested NRC to review and evaluate these technologies and to assess its plans for obtaining regulatory approval for and to involve the public in decisions about the application of those technologies This book presents an assessment of non stockpile treatment options and the application of these systems to the non stockpile inventory of regulatory and permitting issues and of the role of the public

*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

**Recommendations for the Disposal of Chemical Agents and Munitions** 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, 1994-02-01 The U S Army s chemical stockpile is aging and gradually deteriorating Its elimination has public political and environmental ramifications The U S Department of Defense has designated the Department of the Army as the

executive agent responsible for the safe timely and effective elimination of the chemical stockpile This book provides recommendations on the direction the Army should take in pursuing and completing its Chemical Stockpile Disposal Program

Risk Methodologies for Technological Legacies Dennis Bley,Vitaly A. Eremenko,2012-12-06 The Cold War Era left the major participants the United States and the former Soviet Union FSU with large legacies in terms of both contamination and potential accidents Facility contamination and environmental degradation as well as the accident vulnerable facilities and equipment are a result of weapons development testing and production Although the countries face similar issues from similar activities important differences in waste management practices make the potential environmental and health risks of more immediate concern in the FSU and Eastern Europe In the West most nuclear and chemical waste is stored in known contained locations while in the East much of the equivalent material is unconfined contaminating the environment In the past decade the U S started to address and remediate these Cold War legacies Costs have been very high and the projected cost estimates for total cleanup are still increasing Currently in Russia the resources for starting such major activities continue to be unavailable

**Assessment of the Army Plan for the Pine Bluff Non-Stockpile Facility** National Research Council,Division on Engineering and Physical Sciences,Board on Army Science and Technology,Committee on Review and Assessment of the Army Non-Stockpile Chemical Materiel Demilitarization Program: Pine Bluff,2004-04-10 The U S Army is in the process of destroying its chemical weapons stockpile and related non stockpile chemical materiel At the request of the Army the National Research Council NRC has published a number of studies over the last 16 years providing scientific and technical advice on that disposal effort For this study the NRC was asked to assess the design of the facility at the Pine Bluff Arkansas Arsenal intended to dispose of a large amount of non stockpile materiel including 1250 recovered old chemical weapons This is the first of a series of studies directed at reviewing and assessing the Product Manager for Non Stockpile Chemical Materiel initiatives for destruction of this materiel The report provides the results of the Pine Bluff assessment It includes a description of the Pine Bluff facility a discussion of worker and public safety management issues regulatory permitting and public involvement and the role of alternative destruction technologies currently residing at the facility

**Review** Oak Ridge National Laboratory,1996      **National Center for Environmental Health Fact Book**  
National Center for Environmental Health (U.S.),1999



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