

An aerial photograph of a chemical stockpile disposal site, showing a large, irregularly shaped area of land with a light-colored, possibly sandy or silty, surface. The area is surrounded by darker, more vegetated land. The image is overlaid with a semi-transparent orange rectangle containing the title text.

# EFFECTS OF DEGRADED AGENT AND MUNITIONS ANOMALIES ON CHEMICAL STOCKPILE DISPOSAL OPERATIONS

# Effects Of Degraded Agent And Munitions Anomalies On Chemical Stockpile Disposal Operations

**Department of the Army**



## **Effects Of Degraded Agent And Munitions Anomalies On Chemical Stockpile Disposal Operations:**

Effects of Degraded Agent and Munitions Anomalies on Chemical Stockpile Disposal Operations 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, 2004-01-29 The U S Army is in the process of destroying its entire stock of chemical weapons To help with stockpile disposal the Army s Chemical Stockpile Disposal Program CSDP in 1987 asked the National Research Council NRC for scientific and technical advice This report is one in a series of such prepared by the NRC over the last 16 years in response to that request It presents an examination of the effect of leaking munitions leakers and other anomalies in the stored stockpile on the operation of the chemical agent disposal facilities The report presents a discussion of potential causes of these anomalies leaker tracking and analysis issues risk implications of anomalies and recommendations for monitoring and containing these anomalies during the remaining life of the stockpile

**Effects of Degraded Agent and Munitions Anomalies on Chemical Stockpile Disposal Operations** 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, 2004-02-29 The U S Army is in the process of destroying its entire stock of chemical weapons To help with stockpile disposal the Army s Chemical Stockpile Disposal Program CSDP in 1987 asked the National Research Council NRC for scientific and technical advice This report is one in a series of such prepared by the NRC over the last 16 years in response to that request It presents an examination of the effect of leaking munitions leakers and other anomalies in the stored stockpile on the operation of the chemical agent disposal facilities The report presents a discussion of potential causes of these anomalies leaker tracking and analysis issues risk implications of anomalies and recommendations for monitoring and containing these anomalies during the remaining life of the stockpile

**Effects of Degraded Agent and Munitions Anomalies on Chemical Stockpile Disposal Operations**, 2004 **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

**Cleanup of Chemical and Explosive Munitions** Richard Albright, 2008-07-04 Unexploded military ordnance and toxic chemicals some dating back to World War I are a worldwide concern especially at closed military bases that will be redeveloped for housing or civilian use In Europe and Asia many munitions sites are former battlegrounds in Russia and its former territories sites are used for storage and waste disposal Experts estimate that the United States alone could spend between 50 and 250 billion dollars to cleanup these sites many of which are in high population density residential areas You might live near one such site right now This book gives detailed instructions for cleaning up military ordnance sites and lists of explosives chemical warfare materials and breakdown products that the soil and groundwater must be tested for Also included are archival studies remote sensing techniques geophysical techniques safety issues a chemical weapons explosives and ordnance primer known and unknown range lists and a case study of documents written for cleaning up one of the worst examples yet Spring Valley in the District of Columbia It disproves myths common misconceptions and lies and explains what how and where to look for munitions and their residual contamination Author is an award winning and world renowned expert in weapons of mass destruction Meets the needs of explosive and ordnance demolition personnel as well as environmental scientists insurance agents and building contractors Includes the primary documents written by the author for the cleanup of one of the worst sites in the United States Spring Valley District of Columbia Subject of the book is of worldwide concern with former battlegrounds in Europe and Asia as well as storage and waste disposal sites in Russia and former Soviet territories The only text available with clear and complete instructions on proper cleanup of military ordnance sites including a detailed list of explosives chemical warfare material and breakdown products

*Interim Design Assessment for the Pueblo Chemical Agent Destruction Pilot Plant* National Research Council, Division on Engineering and Physical Sciences, Board on Army Science and Technology, Committee to Assess Designs for Pueblo and Blue Grass Chemical Agent Destruction Pilot Plants, 2005-01-18 In 1996 Congress enacted directing the Department of Defense to assess and demonstrate technology alternatives to incineration for destruction of the chemical weapons stored at Pueblo Chemical and Blue Grass Army Depots Since then the National Research Council NRC has been carrying out evaluations of candidate technologies including reviews of engineering design studies and demonstration testing Most recently the NRC was asked by the Army to evaluate designs for pilot plants at Pueblo and Blue Grass These pilot plants would use chemical neutralization for destroying the chemical agent and the energetics in the munitions stockpiles of these two depots This report provides the interim assessment of the Pueblo Chemical Agent Destruction Pilot Plant PCAPP to permit adjustment of any significant problems as soon as possible The report presents an analysis of the issues about the current PCAPP design and a series of findings and recommendations about ways to reduce concerns with involve the public more heavily in the process

**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

**Umatilla Depot Activity, Disposal of Chemical Agents and Munitions**, 1996 **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

Pine Bluff Arsenal, Disposal of Chemical Agents and Munitions, 1996 *Effects of the Deletion of Chemical Agent Washout on Operations at the Blue Grass Chemical Agent Destruction Pilot Plant* National Academies of Sciences, Engineering, and Medicine, Division on Engineering and Physical Sciences, Board on Army Science and Technology, Committee on Effects of the Deletion of Chemical Agent Washout on Operations at the Blue Grass Chemical Agent Destruction Pilot Plant, 2016-06-13 The United States manufactured significant quantities of chemical weapons during the Cold War and the years prior Because the chemical weapons are aging storage constitutes an ongoing risk to the facility workforces and to the communities nearby In addition the Chemical Weapons Convention treaty stipulates that the chemical weapons be destroyed The United States has destroyed approximately 90 percent of the chemical weapons stockpile located at seven sites As part of the effort to destroy its remaining stockpile the Department of Defense is building the Blue Grass Chemical Agent Destruction Pilot Plant BGCAPP on the Blue Grass Army Depot BGAD near Richmond Kentucky The stockpile stored at BGAD consists of rockets and projectiles containing the nerve agents GB and VX and the blister agent mustard Continued storage poses a risk to the BGAD workforce and the surrounding community because these munitions are several decades old and are developing leaks Due to public opposition to the use of incineration to destroy the BGAD stockpile

Congress mandated that non incineration technologies be identified for use at BGCAPP As a result the original BGCAPP design called for munitions to be drained of agent and then for the munition bodies to be washed out using high pressure hot water However as part of a larger package of modifications called Engineering Change Proposal 87 ECP 87 the munition washout step was eliminated Effects of the Deletion of Chemical Agent Washout on Operations at the Blue Grass Chemical Agent Destruction Pilot Plant examines the impacts of this design change on operations at BGCAPP and makes recommendations to guide future decision making

**Chemical Stockpile Disposal Program: Public comments and responses (RC-1, RC-2, and RC-3)** Charles Baronian,1988 **Disposal of Chemical Munitions at Pueblo Chemical**

**Depot** ,2002 *A Modified Baseline Incineration Process for Mustard Projectiles 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 the Army Chemical Stockpile Disposal Program,2001-10-27 The United States has maintained a stockpile of chemical warfare agents and munitions since World War I The Army leadership has sought outside unbiased advice on how best to dispose of the stockpile In 1987 at the request of the Under Secretary of the Army the National Research Council NRC established the Committee on Review and Evaluation of the Army Chemical Stockpile Disposal Program Stockpile Committee to provide scientific and technical advice and counsel on the CSDP This report is concerned with the technology selection for the Pueblo site where only munitions containing mustard agent are stored The report assesses a modified baseline process a slightly simplified version of the baseline incineration system that was used to dispose of mustard munitions on Johnston Island A second NRC committee is reviewing two neutralization based technologies for possible use at Pueblo The evaluation in this report is intended to assist authorities making the selection It should also help the public and other non Army stakeholders understand the modified baseline process and make sound judgments about it

### **Destruction of Chemical Munitions at Pueblo Chemical Depot, Colorado - Final Environmental Impact**

**Statement** Department of the Army,2013-03-09 Public Law 99 145 and subsequent related legislation requires destruction of the U S stockpile of lethal unitary chemical agents and munitions Furthermore in 1993 an international treaty the Chemical Weapons Convention CWC was signed by 65 nations including the United States The CWC which set the deadline for completing destruction of chemical weapons as 10 years following ratification by the required number of nations received the necessary ratifications on April 29 1997 Thus the international deadline for destruction of chemical weapons as April 29 2007 The Army Chemical Stockpile Disposal Program has prepared this Final Environmental Impact Statement FEIS to assess the potential health and environmental impacts of the construction operation and closure of a facility to destroy the chemical agent and munitions stored at Pueblo Chemical Depot PCD Colorado Four alternatives are addressed in this FEIS for possible use in destruction of the PCD stockpile 1 baseline incineration which is currently in use by the Army at Deseret Chemical Depot DCD Utah and was used by the Johnston Atoll Chemical Agent Disposal System JACADS to destroy the entire stockpile

on Johnston Atoll 2 modified incineration which is based on lessons learned at JACADS and DCD 3 chemical neutralization followed by biotreatment a developing technology that would be initially operated as a pilot test facility and 4 chemical neutralization followed by super critical water oxidation which is also under development and would be initially operated as a pilot test facility The latter two alternatives are also being evaluated in a separate DEIS prepared by the Army Assembled Chemical Weapons Assessment Program ACWA as part of four chemical neutralization technologies being considered for pilot testing at PCD and three other chemical munitions storage locations The data and information obtained from testing and full scale operation of the incineration technology and available data and information from on going studies of the neutralization technologies provided by ACWA are analyzed and compared to the extent possible in this FEIS *Destruction of Chemical Munitions at Blue Grass Army Depot, Kentucky - Final Environmental Impact Statement, Volume I (Main Report, Appendices A-J)* Department of the Army, 2013-03-09 Destruction of Chemical Munitions at Blue Grass Army Depot Kentucky Final Environmental Impact Statement Volume I Main Report and Appendices A J see also Volume II Appendix K Public Law 99 145 and subsequent related legislation requires destruction of the U S stockpile of lethal unitary chemical agents and munitions Furthermore in 1993 an international treaty the Chemical Weapons Convention CWC was signed by 65 nations including the United States The CWC which set the deadline for completing destruction of chemical weapons as 10 years following ratification by the required number of nations received the necessary ratifications on April 29 1997 Thus the international deadline for destruction of chemical weapons is April 29 2007 The Army Chemical Stockpile Disposal Program has prepared this Final Environmental Impact Statement FEIS to assess the potential health and environmental impacts of the construction operation and closure of a facility to destroy the chemical agent and munitions stored at Blue Grass Army Depot BGAD Kentucky Four alternatives are addressed in this FEIS for possible use in destruction of the BGAD stockpile 1 baseline incineration which is currently in use by the Army at Deseret Chemical Depot DCD Utah and was used by the Johnston Atoll Chemical Agent Disposal System JACADS to destroy the entire stockpile on Johnston Atoll 2 chemical neutralization followed by supercritical water oxidation a developing technology that would be initially operated as a pilot test facility 3 chemical neutralization followed by supercritical water oxidation and gas phase chemical reduction a developing technology that would be initially operated as a pilot test facility and 4 electrochemical oxidation which is also under development and would be initially operated as a pilot test facility The latter three alternatives have also been evaluated in a separate EIS prepared by the Army Assembled Chemical Weapons Assessment Program ACWA as part of four chemical neutralization technologies being considered for pilot testing at BGAD and three other chemical munitions storage locations The data and information obtained from testing and full scale operation of the incineration technology and available data and information from on going studies of the technologies provided by ACWA are analyzed and compared to the extent possible in this FEIS **Chemical Stockpile Programmatic Disposal Program** ,1987 Destruction of Chemical

Munitions at Blue Grass Army Depot, Kentucky - Final Environmental Impact Statement, Volume II, Appendix K Department of the Army, 2013-03-09 Destruction of Chemical Munitions at Blue Grass Army Depot Kentucky Final Environmental Impact Statement Volume II Appendix K see also Volume I Main Report and Appendices A J Public Law 99 145 and subsequent related legislation requires destruction of the U S stockpile of lethal unitary chemical agents and munitions Furthermore in 1993 an international treaty the Chemical Weapons Convention CWC was signed by 65 nations including the United States The CWC which set the deadline for completing destruction of chemical weapons as 10 years following ratification by the required number of nations received the necessary ratifications on April 29 1997 Thus the international deadline for destruction of chemical weapons is April 29 2007 The Army Chemical Stockpile Disposal Program has prepared this Final Environmental Impact Statement FEIS to assess the potential health and environmental impacts of the construction operation and closure of a facility to destroy the chemical agent and munitions stored at Blue Grass Army Depot BGAD Kentucky Four alternatives are addressed in this FEIS for possible use in destruction of the BGAD stockpile 1 baseline incineration which is currently in use by the Army at Deseret Chemical Depot DCD Utah and was used by the Johnston Atoll Chemical Agent Disposal System JACADS to destroy the entire stockpile on Johnston Atoll 2 chemical neutralization followed by supercritical water oxidation a developing technology that would be initially operated as a pilot test facility 3 chemical neutralization followed by supercritical water oxidation and gas phase chemical reduction a developing technology that would be initially operated as a pilot test facility and 4 electrochemical oxidation which is also under development and would be initially operated as a pilot test facility The latter three alternatives have also been evaluated in a separate EIS prepared by the Army Assembled Chemical Weapons Assessment Program ACWA as part of four chemical neutralization technologies being considered for pilot testing at BGAD and three other chemical munitions storage locations The data and information obtained from testing and full scale operation of the incineration technology and available data and information from on going studies of the technologies provided by ACWA are analyzed and compared to the extent possible in this FEIS

*Alternative Technologies for the Destruction of Chemical Agents and Munitions* National Research Council, Division on Engineering and Physical Sciences, Commission on Engineering and Technical Systems, Committee on Alternative Chemical Demilitarization Technologies, 1993-02-01 The U S Army Chemical Stockpile Disposal Program was established with the goal of destroying the nation's stockpile of lethal unitary chemical weapons Since 1990 the U S Army has been testing a baseline incineration technology on Johnston Island in the southern Pacific Ocean Under the planned disposal program this baseline technology will be imported in the mid to late 1990s to continental United States disposal facilities construction will include eight stockpile storage sites In early 1992 the Committee on Alternative Chemical Demilitarization Technologies was formed by the National Research Council to investigate potential alternatives to the baseline technology This book the result of its investigation addresses the use of alternative destruction technologies to replace partly or wholly or to be used in addition to



the baseline technology The book considers principal technologies that might be applied to the disposal program strategies that might be used to manage the stockpile and combinations of technologies that might be employed Chemical Stockpile Disposal Program Charles Baronian, 1988

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## **Table of Contents Effects Of Degraded Agent And Munitions Anomalies On Chemical Stockpile Disposal Operations**

1. Understanding the eBook Effects Of Degraded Agent And Munitions Anomalies On Chemical Stockpile Disposal Operations
  - The Rise of Digital Reading Effects Of Degraded Agent And Munitions Anomalies On Chemical Stockpile Disposal Operations
  - Advantages of eBooks Over Traditional Books
2. Identifying Effects Of Degraded Agent And Munitions Anomalies On Chemical Stockpile Disposal Operations
  - Exploring Different Genres
  - Considering Fiction vs. Non-Fiction
  - Determining Your Reading Goals
3. Choosing the Right eBook Platform
  - Popular eBook Platforms
  - Features to Look for in an Effects Of Degraded Agent And Munitions Anomalies On Chemical Stockpile Disposal Operations

- User-Friendly Interface
- 4. Exploring eBook Recommendations from Effects Of Degraded Agent And Munitions Anomalies On Chemical Stockpile Disposal Operations
  - Personalized Recommendations
  - Effects Of Degraded Agent And Munitions Anomalies On Chemical Stockpile Disposal Operations User Reviews and Ratings
  - Effects Of Degraded Agent And Munitions Anomalies On Chemical Stockpile Disposal Operations and Bestseller Lists
- 5. Accessing Effects Of Degraded Agent And Munitions Anomalies On Chemical Stockpile Disposal Operations Free and Paid eBooks
  - Effects Of Degraded Agent And Munitions Anomalies On Chemical Stockpile Disposal Operations Public Domain eBooks
  - Effects Of Degraded Agent And Munitions Anomalies On Chemical Stockpile Disposal Operations eBook Subscription Services
  - Effects Of Degraded Agent And Munitions Anomalies On Chemical Stockpile Disposal Operations Budget-Friendly Options
- 6. Navigating Effects Of Degraded Agent And Munitions Anomalies On Chemical Stockpile Disposal Operations eBook Formats
  - ePub, PDF, MOBI, and More
  - Effects Of Degraded Agent And Munitions Anomalies On Chemical Stockpile Disposal Operations Compatibility with Devices
  - Effects Of Degraded Agent And Munitions Anomalies On Chemical Stockpile Disposal Operations Enhanced eBook Features
- 7. Enhancing Your Reading Experience
  - Adjustable Fonts and Text Sizes of Effects Of Degraded Agent And Munitions Anomalies On Chemical Stockpile Disposal Operations
  - Highlighting and Note-Taking Effects Of Degraded Agent And Munitions Anomalies On Chemical Stockpile Disposal Operations
  - Interactive Elements Effects Of Degraded Agent And Munitions Anomalies On Chemical Stockpile Disposal Operations

## **Effects Of Degraded Agent And Munitions Anomalies On Chemical Stockpile Disposal Operations**

---

8. Staying Engaged with Effects Of Degraded Agent And Munitions Anomalies On Chemical Stockpile Disposal Operations
  - Joining Online Reading Communities
  - Participating in Virtual Book Clubs
  - Following Authors and Publishers Effects Of Degraded Agent And Munitions Anomalies On Chemical Stockpile Disposal Operations
9. Balancing eBooks and Physical Books Effects Of Degraded Agent And Munitions Anomalies On Chemical Stockpile Disposal Operations
  - Benefits of a Digital Library
  - Creating a Diverse Reading Collection Effects Of Degraded Agent And Munitions Anomalies On Chemical Stockpile Disposal Operations
10. Overcoming Reading Challenges
  - Dealing with Digital Eye Strain
  - Minimizing Distractions
  - Managing Screen Time
11. Cultivating a Reading Routine Effects Of Degraded Agent And Munitions Anomalies On Chemical Stockpile Disposal Operations
  - Setting Reading Goals Effects Of Degraded Agent And Munitions Anomalies On Chemical Stockpile Disposal Operations
  - Carving Out Dedicated Reading Time
12. Sourcing Reliable Information of Effects Of Degraded Agent And Munitions Anomalies On Chemical Stockpile Disposal Operations
  - Fact-Checking eBook Content of Effects Of Degraded Agent And Munitions Anomalies On Chemical Stockpile Disposal Operations
  - Distinguishing Credible Sources
13. Promoting Lifelong Learning
  - Utilizing eBooks for Skill Development
  - Exploring Educational eBooks
14. Embracing eBook Trends
  - Integration of Multimedia Elements
  - Interactive and Gamified eBooks

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