

Review of Systemization of the Tooele Chemical Agent Disposal Facility

Committee on Review and Evaluation of the Army
Chemical Stockpile Disposal Program
Board on Army Science and Technology
Commission on Engineering and Technical Systems
National Research Council

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Review Of The Systemization Of The Tooele Chemical Agent Disposal Facility

Dennis Bley, Vitaly A. Eremenko



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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

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, 1996-03-19 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

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

Closure and Johnston Atoll Chemical Agent Disposal System 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, 2002-05-22 Johnston Atoll Chemical Agent Disposal System JACADS the first fully integrated chemical agent disposal facility is located on Johnston Island some 800 miles southwest of Hawaii JACADS completed ten years of operations in November 2000 which resulted in the disposal of more than 2000 tons

of nerve and mustard agents In 1998 the Army began planning for closure and dismantling of the facility In 1999 the NRC was asked to review the Army s planning This book presents an assessment of planned and ongoing closure activities on Johnston Island in some detail It also provides an analysis of the likely implications for closure of disposal facilities at eight continental U S storage sites

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, 2001-02-01 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

Chemical Stockpile Demilitarization Program United States. Congress. House. Committee on National Security. Subcommittee on Military Procurement, 1996

Chemical Stockpile Demilitarization Program United States. Congress. House. Committee on National Security. Military Personnel Subcommittee, 1996

Review and Evaluation of Alternative Chemical Disposal Technologies Panel on Review and Evaluation of Alternative Chemical Disposal Technologies, Commission on Engineering and Technical Systems, Division on Engineering and Physical Sciences, National Research Council, 1996-11-29 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

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

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

Annual Historical Review United States. Army Materiel Command. Historical Office, 1992

Carbon Filtration for Reducing Emissions from Chemical Agent Incineration 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, 1999-09-12 This report reviews the Army's evaluation of carbon filters for use in the baseline incineration PAS as well as the Army's change management process the Army's tool for evaluating major equipment and operational changes to disposal facilities In preparing this report members of the Stockpile Committee evaluated exhaust gas emissions testing at the two operating baseline incineration systems JACADS and the TOCDF evaluated the development of the dilute SOPC carbon filter simulation model and evaluated the conceptual design of a modified PAS with an activated carbon filter The two major risk assessments conducted for each continental disposal site that use the baseline system namely 1 the quantitative risk assessment which evaluates the risks and consequences of accidental agent releases and 2 the health risk assessment which evaluates the potential effects of nonagent emissions on human health and the environment

were also examined **Military Law Review** ,1994 *New and Forthcoming Books* National Academy Press (U.S.),1993

Tooele Army Depot, Disposal of Chemical Agents and Munitions ,1989 **Umatilla Depot Activity, Disposal of Chemical Agents and Munitions** ,1996 **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,2001-09-27 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 **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 **Department of Defense Authorization for Appropriations for Fiscal Year 1995 and the Future Years Defense Program** United States. Congress. Senate. Committee on Armed Services,1994 *Department of Defense Authorization for Appropriations for Fiscal Year 1994 and the Future Years Defense Program: Nuclear deterrence, arms control, and defense intelligence* United States. Congress. Senate. Committee on Armed Services,1999

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