



# Mobile Alternative Demilitarization Technologies

Edited by

Francis W. Holm

NATO ASI Series

# Mobile Alternative Demilitarization Technologies

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Committee on Appropriations.  
Subcommittee on Department of  
Defense**

## **Mobile Alternative Demilitarization Technologies:**

*Mobile Alternative Demilitarization Technologies* F.W. Holm, 2012-12-06 FRANCIS W HOLM 7102 Meadow Lane Chevy Chase MD 20815 The North Atlantic Treaty Organization NATO sponsored an Advanced Research Workshop ARW in Prague Czech Republic on 12 July 1996 to collect and study information on mobile alternative and supplemental demilitarization technologies and to report these findings The mobile or transportable technologies identified for assessment at the workshop are alternatives to incineration technology for destruction of munitions chemical warfare agent and associated materials and debris Although the discussion focused on the treatment of metal parts and explosive or energetic material requirements for decontamination of other materials were discussed The mobile alternative technologies are grouped into three categories based on process bulk operating temperature low 0 200 C medium 200 600 C and high 600 3 500 C Reaction types considered include hydrolysis biodegradation electrochemical oxidation gas phase high temperature reduction steam reforming gasification sulfur reactions solvated electron chemistry sodium reactions supercritical water oxidation wet air oxidation and plasma torch technology These categories represent a broad spectrum of processes some of which have been studied only in the laboratory and some of which are in commercial use for destruction of hazardous and toxic wastes Some technologies have been developed and used for specific commercial applications however in all cases research development test and evaluation RDT E is necessary to assure that each technology application is effective for destroying chemical warfare materiel

Effluents from Alternative Demilitarization Technologies F.W. Holm, 2012-12-06 FRANCIS W HOLM 30 Agua Sarca Road Placitas New Mexico 1 Overview The North Atlantic Treaty Organization NATO sponsored an Advanced Research in Prague Czech Republic on October 13 15 1997 to collect and Workshop ARW study information on effluents from alternative demilitarization technologies and to report on these findings The effluents or process residues identified for assessment at the workshop are generated by systems that have been proposed as alternatives to incineration technology for destruction of munitions chemical warfare agent and associated materials and debris The alternative technologies analyzed are grouped into three categories based on process bulk operating temperature low 0 200 C medium 200 600 C and high 600 3 500 C Reaction types considered include hydrolysis biodegradation electrochemical oxidation gas phase high temperature reduction steam reforming gasification sulfur reactions solvated electron chemistry sodium reactions supercritical water oxidation wet air oxidation and plasma torch technology These processes some of which have been studied categories represent a broad spectrum only in the laboratory and some of which are in commercial use for destruction of hazardous and toxic wastes Some technologies have been developed and used for specific commercial applications however in all cases research development test and evaluation RDT E is necessary to assure that each technology application is effective for destroying chemical warfare materiel Table 1 contains a list of more than 40 technologies from a recent report for the U S Army 1 Many of the technologies in Table 1 are based on similar principles

*Scientific Advances in Alternative*

*Demilitarization Technologies* F.W. Holm, 2012-12-06 FRANCIS W HOLM Science Applications International Corporation 7102 Meadow Lane Chevy Chase MD 20815 The North Atlantic Treaty Organization NATO sponsored an Advanced Research Workshop ARW in Warsaw Poland on April 24 25 1995 to collect and study information on alternative and supplemental demilitarization technologies The conference included experienced scientists and engineers who delivered presentations and provided written reports of their findings Countries describing their technologies included Poland pre processing thermal oxidation and instrumentation Russia molten salt oxidation plasma catalytic oxidation supertoxicants molten metal fluid bed reactions and hydrogenation Germany supercritical water oxidation and detoxification the United Kingdom electrochemical oxidation the United States wet air oxidation detoxification and biodegradation and the Czech Republic biodegradation The technologies identified for assessment at the workshop are alternatives to incineration technology for chemical warfare agent destruction Treatment of metal parts and explosive or energetic material were considered as a secondary issue The treatment of dunnage and problems associated with decontamination while recognized as an element of demilitarization received only limited discussion The alternative technologies are grouped into three categories based on process bulk operating temperature low 0 200 C medium 200 600 C and high 600 3 500 C Reaction types considered include hydrolysis oxidation electrochemical hydrogenation and pyrolysis These categories represent a broad spectrum of processes some of which have been studied only in the laboratory and some of which are in commercial use for destruction of hazardous and toxic wastes Some technologies have been developed and used for specific commercial applications

Disposal of Neutralized Wastes 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, 2001-04-29

Chemical warfare materiel CWM is a collection of diverse items that were used during 60 years of efforts by the United States to develop a capability for conducting chemical warfare Nonstockpile CWM which is not included in the current U S inventory of chemical munitions includes buried materiel recovered materiel binary chemical weapons former production facilities and miscellaneous materiel CWM that was buried in pits on former military sites is now being dug up as the land is being developed for other purposes Other CWM is on or near the surface at former test and firing ranges According to the Chemical Weapons Convention CWC which was ratified by the United States in April 1997 nonstockpile CWM items in storage at the time of ratification must be destroyed by 2007 The U S Army is the designated executive agent for destroying CWM Nonstockpile CWM is being handled by the Non Stockpile Chemical Materiel Program NSCMP stockpile CWM is the responsibility of the Chemical Stockpile Disposal Program Because nonstockpile CWM is stored or buried in many locations the Army is developing transportable disposal systems that can be moved from site to site as needed The Army has plans to test prototypes of three transportable systems the rapid response system RRS the munitions management device MMD and the explosive destruction system EDS for accessing and destroying a range of nonstockpile chemical agents and militarized

industrial chemicals The RRS is designed to treat recovered chemical agent identification sets CAIS which contain small amounts of chemical agents and a variety of highly toxic industrial chemicals The MMD is designed to treat nonexplosively configured chemical munitions The EDS is designed to treat munitions containing chemical agents with energetics equivalent to three pounds of TNT or less These munitions are considered too unstable to be transported or stored A prototype EDS system has recently been tested in England by non stockpile program personnel Although originally proposed for evaluation in this report no test data were available to the committee on the composition of wastes from the EDS Therefore alternative technologies for the destruction of EDS wastes will be discussed in a supplemental report in fall 2001 Treatment of solid wastes such as metal munition bodies packing materials and carbon air filters were excluded from this report Review and Evaluation of the Army Non Stockpile Chemical Materiel Disposal Program Disposal of Neutralent Wastes evaluates the near term 1999 2005 application of advanced nonincineration technologies such as from the Army s Assembled Chemical Weapons Assessment Program and the Alternative Technologies and Approaches Project in a semi fixed skid mounted mode to process Rapid Response System Munitions Management Device and Explosive Destruction System liquid neutralization wastes

**Alternatives for the Demilitarization of Conventional Munitions** National Academies of Sciences, Engineering, and Medicine, Division on Engineering and Physical Sciences, Board on Army Science and Technology, Committee on Alternatives for the Demilitarization of Conventional Munitions, 2019-01-11 The U S military has a stockpile of approximately 400 000 tons of excess obsolete or unserviceable munitions About 60 000 tons are added to the stockpile each year Munitions include projectiles bombs rockets landmines and missiles Open burning open detonation OB OD of these munitions has been a common disposal practice for decades although it has decreased significantly since 2011 OB OD is relatively quick procedurally straightforward and inexpensive However the downside of OB and OD is that they release contaminants from the operation directly into the environment Over time a number of technology alternatives to OB OD have become available and more are in research and development Alternative technologies generally involve some type of contained destruction of the energetic materials including contained burning or contained detonation as well as contained methods that forego combustion or detonation Alternatives for the Demilitarization of Conventional Munitions reviews the current conventional munitions demilitarization stockpile and analyzes existing and emerging disposal treatment and reuse technologies This report identifies and evaluates any barriers to full scale deployment of alternatives to OB OD or non closed loop incineration combustion and provides recommendations to overcome such barriers Aberdeen Proving Ground, Transportable

Treatment Systems for Non-stockpile Chemical Warfare Materiel ,2001 **The British National Bibliography** Arthur James Wells,1998 Umatilla Depot Activity, Disposal of Chemical Agents and Munitions ,1996 *The Cumulative Book Index* ,1998 A world list of books in the English language **Congressional Record** United States. Congress,1999

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Department of Defense Appropriations for 1989: Chemical weapons and demilitarization United States. Congress. House.  
Committee on Appropriations. Subcommittee on Department of Defense,1988 *Explaining Risk Analysis* Michael  
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  
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the connections between the parts This framework requires an understanding of basic terms including explanations of why  
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