

*Handwritten notes and signatures at top left.*

*Handwritten notes and signatures at top right, including a circled 'E76'.*

**\* FACSIMILE TRANSMISSION \***

OATSD(NCB)(CBM)  
2451 CRYSTAL DRIVE, SUITE 650  
FIVE CRYSTAL PARK  
ARLINGTON, VIRGINIA 22202

*Handwritten signature and date: NOV 14 1996*

SEE DISTRIBUTION

FM: (b)(6)

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Re: NATO Workshop in Moscow, Briefing Slides on Chem Demil

Referend workshop is scheduled for 18-20 Nov 96. This UNCLASSIFIED briefing is a standard one which Dr. Ted Preciv gives as an overview of the U.S. Chemical Demilitarization Program. A schedule conflict will preclude his presenting the briefing so he has asked that I do it in his stead.

I would appreciate an "Interagency Look" at the briefing but must ask that you do so rather quickly. If you would like to incorporate changes please let me know by 1600 hours on Friday, 15 Nov 96. If I hear nothing by that time, I will assume that you have no comments and the slides are okay. Thank you.

If the print is too small to be read, I will FAX individual pages (enlarged) for your review upon request. Also, if you would like an agenda for the conference, please let me know.

(b)(6)

Attachment

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*Handwritten notes on right side: "Told to send for AUSA" and "No such file. Where else can it be out. Thank you. ADIC"*

Total number of pages (including cover): Six (6)



(b)(6)

Deputy for Chemical/Biological Matters  
Assistant to the Secretary of Defense  
(Nuclear & Chemical & Biological Defense  
Programs)



### CHEMICAL DEMILITARIZATION PILLARS

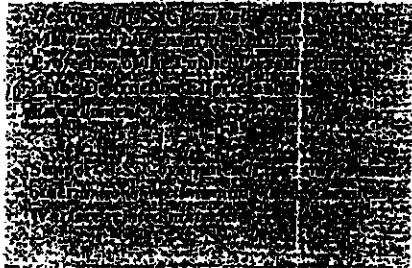


Chemical Incidents  
Disposal Project

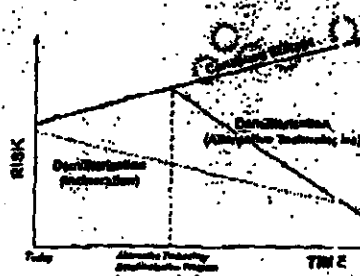
Toxicological  
Chemical Material  
Project



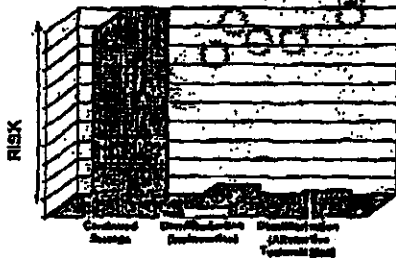
### MISSION



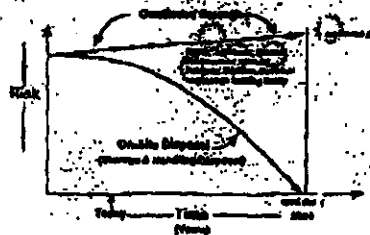
### Chemical Weapons Demilitarization: Risks of Options



### Cumulative Risk Estimation



### COMPARATIVE RISK STORAGE VS DISPOSAL





**PROBLEMS WITH ROCKETS**

- Leakage
- Degrading Propellant
- Possible Catastrophic Consequences

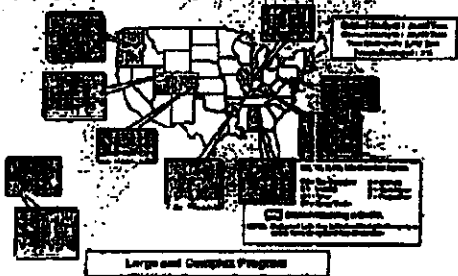


**INVENTORY M55 ROCKETS (GB/VX)**

Weapon Type	Material	Quantity	Location
Amalite	Rockets	95,504	20
	Rocket Workheads	20	
Min Oxam	Rockets	9,400	20
	Rocket Workheads	20	
Fire Mail	Rockets	100,013	20
	Rocket Workheads	20	
Tooth	Rockets	20,997	20
	Rocket Workheads	20	
Linnette	Rockets	100,000	20
	Rocket Workheads	20	



**NATIONAL CHEMICAL STOCKPILE DISTRIBUTION BY STORAGE LOCATION**



**PROGRAM ACCOMPLISHMENTS AND STATUS**



**ACCOMPLISHMENTS JOHNSTON ISLAND**

- Operational Since 1990
- The First Full-Scale Chemical Demolition Incineration Facility
- Extensive Shut-Down Effort has been Required
- Successfully Destroyed Over 1,000 Tons of Agent
- All M55 Rockets on Johnston Island Destroyed
- All MC-1 Bombs on Johnston Island Destroyed (Air Force)
- All MK-94 Bombs on Johnston Island Destroyed (Navy)
- Preparing for GD 155mm Projectile Campaign



**ACCOMPLISHMENTS TOOELE**

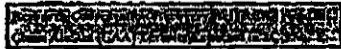
- Facility Construction Completed (Example) on Jul 93
- Synchronization Status - Operational System in Acceptance Tests
- Emergency Preparedness
- Began Destruction of U.S. Stockpile - 23 Aug 96





**STATUS  
ANNISTON**

- **Systems Contract Status:**
  - Awarded With a "Limited Notice to Proceed" Provided to Westinghouse Electric Company on February 28, 1996
  - Allows for Construction Planning, Permit Processing, and Preparation for Construction
  - Construction Efforts Will Not Commence Until Receipt of Necessary Environmental Permits



**STATUS  
UMATILLA**

- **Procurement:**
  - Request for Proposal Issued Jul 1996
  - Source Selection Evaluation Board Completed
  - Systems Contract Award Scheduled for 2Q FY97
- **Environmental:**
  - RCRA and CAA Permit Applications Submitted Feb and Aug 1995, Respectively
  - HRA Being Prepared by State's Department of Environmental Quality (DEQ), Scheduled to Be Finalized 2Q FY97



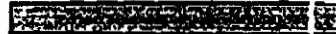
**STATUS  
PINE BLUFF**

- **Procurement:**
  - Request for Proposal Issued Jul 1996
  - Systems Contract Award Scheduled for 1Q FY97
- **Environmental:**
  - RCRA/CAA Permit Applications & HRA Protocol Provided to State in Jan 1995
  - HRA Protocol Being Reviewed to Meet State's Changed Protocol Standards - Resubmitted to the State 3Q FY96



**STATUS  
PUEBLO**

- **Procurement:**
  - Request for Proposal Issued Jul 1996
  - Systems Contract Award Scheduled for 2Q FY97, Funding Receipt of RCRA, CAA Permits and Notification of Designation
- **Environmental:**
  - HRA Protocol Submitted to State Aug 1995
  - RCRA & CAA Permit Applications Submitted to State Oct 1995



**CHEMICAL STOCKPILE EMERGENCY  
PREPAREDNESS PROJECT (CSEPP)**

- **Objectives**
  - Build and Maintain a Strong Relationship Between Army Installations and Communities
  - Develop and Maintain a State-of-the-Art "Community Emergency Response Capability Around the Eight Chemical Stockpile Storage Installations"
  - Be a Good Neighbor by Providing Funding and Technical Assistance to the Civilian Community for the Improvement of Emergency Response Capability
  - Work in Concert with the Community to Assure Maximum Protection to the Public



**ACCOMPLISHMENTS  
Community Outreach**

- Strategic Plan
- Storefront Information Centers
- Public Education Programs
- Funding provided to Citizens Advisory Committees



### STATUS ALTERNATIVE TECHNOLOGIES

- Establish the Feasibility of Stand Alone Neutralization and Neutralization Followed by Biodegradation Processes for VX and VX Disposal at Aberdeen Proving Ground (APG) and Newport Chemical Activity (NECA).
- Provide Information to Support a Department of Defense (DOD) Decision to Proceed or Not Proceed with Pilot Testing - Dec 96



### ALTERNATIVE TECHNOLOGIES AND APPROACHES

- Focused on "Bulk Only" (VX, VX and VX)
  - Reaching Out to Industry to Develop Alternative Technologies - 3 Proposals Submitted to DOD at DNR for Evaluation
    - Silver II Electrochemical Oxidation (ASA Technology)
    - High Temperature Gas Phase Oxidation (Th: ECO Logic Process)
    - Catalytic Extraction Process (M4 Environmental Systems)
- Government R&D Effort With Two Low-Temperature and Low-Pressure Destruction Technologies
  - Neutralization Followed by Offsite Wastewater Treatment
  - Neutralization Followed by Biodegradation



### STATUS NON STOCKPILE CHEMICAL MATERIEL PROGRAM (NSCMP)

- Disposal of All Chemical Warfare Materiel (CWM) Not Included in the Unitary Approach
  - Binary Chemical Weapons (CWC: Within 10 yrs)
  - Miscellaneous CWC: Devices and Equipment Specific to Employment of Chemical Weapons (Unfilled Munitions, Bombers, Launchers, etc.) (CWC: Within 3 yrs)
  - Recovered Chemical Weapons (CWC: Within 10 yrs)
  - Former Production Facilities (CWC: Within 10 yrs)
  - Buried CWM (CWC: Treated as recovered chem wps)

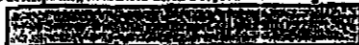


### POTENTIAL CHEMICAL WARFARE MATERIEL BURIAL SITES



### NSCMP CURRENT ACTIVITIES

- Detailed Implementation Plan Aug 95
- Programs on Environmental Impact Studies - On Going
- On-Site Destruction Technology, Design and Fabrication - On Going
- Environmental Permit Certification for Demonstration of Technology - On Going
- Selection of Small Business Contractor - Jul 95
- Participating in Remediation Projects - On Going



### CHEMICAL WEAPONS CONVENTION REQUIREMENTS

- Able Entry into Force (EIF) - All weapons destroyed within 10 years
- Requires Destruction of:
  - Unitary Chemical Weapons
  - Chemical Agents and Precursors
  - Equipment and Devices Specifically for Chemical Weapons
  - Former Chemical Weapons Production Facilities
  - Binary Weapons



**SUMMARY**

A large rectangular area that has been heavily obscured by a dense pattern of black dots or noise, making the underlying content completely illegible. It appears to be a table or a chart that was not rendered correctly in this scan.